

CHEMICAL COMPATIBILITY TABLE
For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials
(Updated 08/10/2011)

		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)																			
		Swelling		Loss of Tensile Strength		Description of Chemical Attack															
							A B C NR	Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)										
		< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration Good chemical resistance, minor swelling, softening or deterioration Limited chemical resistance, moderate attack, conditional service Severe attack, not recommended for use															
		< 15%	<= 30%	< 30%	<= 30%																
< 20%	<= 50%	< 50%	<= 60%																		
NR		> 20%	> 50%	> 50%	> 60%	> 60%															
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																					
CHEMICAL		SPRING Materials					COUPLING Materials							SEAL Materials							
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone	
Acetaldehyde (Acetic Aldehyde, Acetic Ethanol)	C2H4O (75-07-0)	A @ 100% to 140° AB @ 100% to 200°	A to 212°	A 40-100%	A 40-100%	A	AB to 40% to 140° BC @ 100% @ 70-130° NR @ 100% @ 140°	C 40-100% @ 70° C/NR 120-140° ** (OK Fluorinated/TEST)	AB to 40% NR 40-100% @ 70°+	A	A 40-100% to 70° AB to 180°	NR	NR 40-100% @ 70°	NR	B @ 40% 70-104° C @ 40% @ 140° HIFLUOR AB to 70°	A to 104° AB to 200°	(Chemraz White) NR (Simriz) AB (Kalrez 4079) A	NR	AB to 70°	AB to 70°	
Acetamide (N-Acetyl Cysteamine) (Ethanethiol)	C4H9NOS (1190-73-4)	A 100% to 70° A 98% to 135° A 50% to 200° A to 212°	A to 140° C 100% @ 150°	A to 200°	A @ 50% to 70°	A	A to 125° AB to 150°	A to 122°	A to 75° AB to 200°	A	B @ 70°	NO DATA	NR	NR	HIFLUOR AB to 70°	A to 140° AB to 200°	A	A to 70° AB to 180°	A to 70°	BC @ 70° NR @ 70° (Dynamic)	
Acetic Acid (Glacial (99.8% Pure), Vinegar (4-18%)) (Ethanoic Acid)	C2H4O2 (64-19-7) (9035-69-2)	A	A to 212°	A	A	A (PTFE Encapsulated 316 Stainless St.)	A to 140° AB 50-100% to 160° AB to 80% to 180°	AB to 100% to 70° AB 60% to 180°	A to 122° A to 10% to 225° AB to 50%,150-200°	A	A to 5% to 70° BC 10% @ 70°	AB 10% to 70° C 20% @ 70° NR 50-100% @ 70°	A to 100% to 70° A to 20% to 140°	A to 50% to 70° B to 50% @ 122°	HIFLUOR AB to 70°	A to 70° AB to 200°	A A to 70°	B to 30% at 70° B to 20% to 185° C at 80% at 70°	A to 30% to 70° C 50% @ 70°	A to 30% to 70°	
Acetic Anhydride (Acetyl Oxide)	C4H6O3 (108-24-7)	A	A to 40% to 165° A 40-100% to 300°	A to 200°	A	A (PTFE Encapsulated 316 Stainless St.)	AB to 130° NR @ 140°	B/NR 100% 70-180° NR @ 122°	AB to 70° NR @ 122°	A	NR at 70°	B/NR @ 70° NR @ 122	NR at 70°	NR at 70°	NR 50% to 70° NR 50% @ 100° NR 100% @ 70°	B to 200°	A	C at 100% at 70° NR 25-50% at 70°	A to 70°	C @ 70° NR @ 70° (Dynamic)	
Acetone (Dimethyl Keytone)	CH3COCH3 (67-64-1)	A	A to 212°	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 230°	C at 70°	A to 10% to 122° AB 50% to 77°	A	A at 5% to 140° B at 70°	B 10% @ 70°	A to 20% to 70° NR at 100% at 70°	A to 70° NR 10-100% at 70°	HIFLUOR AB to 70°	A to 200°	A	125% vol 3 days 70° NR any conc at 70°	AB to 70°	C @ 70°	
Acetonitrile (Methyl Cyanide)	CH3CN (75-05-8)	B @ 70°	A@100% to 100° NR 4% @ 192°	A to 200°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	AB to 75° NR @ 122°	A to 122°	A to 125° B @150° NR @ 180°	A	NR at 70°	NO DATA	NR at 70°	NR at 70°	HIFLUOR AB to 70°	A	A	C at 70°	NR	NO DATA	
Acrylic Acid (Acrylic Polymer)	C3H4O2 (9063-87-0)	A 19%	A to 122° A 45% to 150° A 30% to 250°	NO DATA	A to 212°	A	A 100% to 70° AB 100% 100-250°	AB to 70° C @ 122° ** (OK Fluorinated/TEST)	A 100% to 280° A 100% to 70°	A	NR	NR	B @ 70-122°	A tp 20% to 70° NR 100% @ 70°	NR	NR	A	NR	NO DATA	NO DATA	
Aluminum Sulfate (Aluminum Salt)	Al2O12S3 (10043-01-3)	A to 165°	A to 50% to 212° AB 50-100%	A to 100% to boiling	A to 212°	A	A to 100% to 160° A to 10% to boiling AB 100% at 250°	A to 160°	A to 100% to 280° A 10% to boiling	A	A at 10% to 70° AB to 100% to 180°	A to 70° AB to 120°	A to 100% to 200° A to 10% to boiling	A to 100% to 200°	A to 100% to 176° A to 10% to boiling	A to 176° AB to 200°	A to 70°	A to 70° AB any conc to 180°	A to 70°	A to 70°	
Amines (General)	NA	A to 85% to 160° AB to 200°	A	A to 70°	A to 70°	A	AB to 120°	NR	NR	A	NR at 70°	NO DATA	NO DATA	NR at 70°	NR	AB to AC	A	NR at 70°	A to 70°	BC @ 70°	
Ammonia (Anhydrous Liquid)	NH3 (7664-41-7)	A @ 100% to 140°	A to 40% to 165° A 40-100% to 212°	A to 200°	A	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 212°	A to 140°	A	A	NR at 70°	B @ 70°	C at 70°	NR at 70°	NR	A to 140°	A (Black 550) AB (White 571 & 592)	A to 104° B to 140° NR at 200°	A	BC 70-140° C @ 240°	
Ammonia (Aqueous) (Ammonium Hydrate) (see also Ammonium Hydroxide)	NH3 (7664-41-7)	A to 100% to 70° AB to 100% to 200°	A to 100% to 70° AB to 212°	A to 30% to 70° A to 10% to 200°	AB	A (PTFE Encapsulated 316 Stainless St.)	A to 185°	BC to 30% to 120° NR to 30% at 140°	A	A	A/NR 10-30% to 120°	B @ 70°	AB to 30% to 200°	NR 70-150°	AB 30% to 70° C 10% @ 104° HIFLUOR AB to 70°	A 100% to 212°	A	A at 38% to 200°	A to 70°	A to 70° C @ 70° (Dynamic)	
Ammonium Acetate	C2H7NO2 (631-61-8)	A@19%	A to 100% to 150°	NO DATA	A	A	A to 102° AB to 180°	A to 122°	A to 100% to 175°	A	A to 70°	NO DATA	A sat'd to 122°	A sat'd to 122°	A to 140° B at 212°	A	A	A to 140° B at 176°	A to 70°	AB to 70° C @ 70° (Dynamic)	
Ammonium Bifluoride (Ammonium Hydrogen Fluoride)	F2H5N (1341-49-7)	A 10% to 70° B 50-100%	B/NR 6-10% @ 70-250 B45% C 35% @ 70°	NR	A	A	A to 225°	NO DATA	A	A	NR	A to 120°	NO DATA	NO DATA	A to 100% to 140°	A to 140° B 212°	A	AB to 140° B 180-212°	A to 100% to 70°	NO DATA	
Ammonium Fluoride	NH4F (12125-01-8)	A to 25% to 175° A 45% to 260°	AB to 10% to 212° NR > 10%	NR	A	A (PTFE Encapsulated 316 Stainless St.)	A	AC 25-100% to 120° A to 25% to 160°	A	A°	NO DATA	NO DATA	NO DATA	NR at 70°	A to 140°	A to 140°	A	AB any conc to 104°	NO DATA	A to 70°	
Ammonium Hydroxide (Ammonia, Aqueous)	NH4OH (1336-21-6)	A to 47% to 70° A@100% to 150° AB@100% to 200°	A to 100% to 70° A@100% to 150°	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 225°	AB to 100% to 140°	A to 200°	A	AB to 100% to 140°	B @ 70°	A to 100% to 200°	BC 5% at 70° NR 10-100% 70° NR 5% at 120°	A46% to 70° AB to 70° B 104-140°	A to 160° AB to 200°	A	A to 38% to 200° A/NR conc to 140°	A to 70°	A to 70°	
Ammonium Sulfate (Dolamin)	(NH4)2SO4 (7783-20-2)	A to 10% to boiling A sat. to 130° AB sat. to 200°	A to 37% to 221° AB 38-80% to 150° A sat'd to boiling	A to 200°	A	A (PTFE Encapsulated 316 Stainless St.)	A 10% to 100°	A to 100% to 70° AB to 100% 120-180°	A	A to 400°	B 100% 70-140° AB fertilizer to 70° AB to 5% to 70°	A to 70° AB @ 120°	A to 100% to 200° A to sat'd to boiling	A to 100% to 200° NR 10-100%boiling	A to 70°	A to 120°	A	A any con to 200°	A to 70°	A to 70°	
Amyl Alcohol	C5H12O (71-41-0)	A to 200°	A to 200°	A to 200°	A to 70°	A	A to 180°	A to 70°	A to 250°	A	A to 140°	B @ 70°	A to 200°	AB to 70°	AB to 212°	A @ 100% to 200° AB to 300°	A	A to 100% to 140° AB to 100% to 180°	A @ 100% to 70°	NR	
Aqua Regia (NitroHydrochloric Acid)	HCL-HNO3 (8007-56-5)	NR (Titanium: A to 70°) (Tantalum: A)	NR	NR	NR	A (PTFE Encapsulated 316 Stainless St.)	C at 70 - 104°	NR	A to 100° AB to 178° B a 212°	A	NR at 70°	NR	NR at 70°	NR at 70°	B to 185°	NR at 140°	AB to 70° (Black 550)			C/NR @ 70°	
Benzene (Mineral Naphtha) (Benzol)	C6H6 (71-43-2)	AB @100% to 140° B to 100% to Boiling	A to 20% to 217° AB 20-100% to 200°	A to 100°	A to 212°	A to 500°	AB to 10% to 70° AB dilute to 140°	A at 10% to 70° C/NR at 100% at 70° NR at 122°	A to 100% to 120° B at 100% at 120-140° at 100% at 140-158°	A to 500°	A to 140°	NR	NR at 70°	NR at 70°	B to 158°	NR at 70°	A to 70°	NR at 70°	NR	NR at 70°	
Benzene Sulfonic Acid	C18H30O3S (68584-22-5)	B to 212°	AB to 40% to 212° A 40-60% to 275° A 45-100% to 70°	A to 200°	A/NR @ 70°	A	AB to 100° AB to 10% to 180°	A to 120° A to 10% to 140°	A to 150°	A	C @ 70°	NO DATA	NR	NR	A	NR 10-100% @ 70°	A to 70°	NR 10-100% @ 70°	A to 70°	NR 10-100% @ 70°	
Benzoic Acid (Carboxybenzene) (Benzymethonic acid)	C7H6O2 (65-85-0)	A to 100% to 70° AB to 100% 70-200° C 50% @ 212°	B to 100% to 212°	A to 200°	A	A	A to 140° AB to 180°	A to 180°	A	A	AB @ 70 C/NR @ 140°	B @ 70°	C 10-100% @ 70° NR 10-100% @ 200°	A @ 70° B 10-100% @120° NR 100% @ 200°	A to 70°	B/NR @ 70° NR @ 140°	A to 70°	NR	A to 70°	C/NR @ 70°	
BOE (Buffered Oxide Etch) (30-50% Ammonuim Fluoride, 0.5-10% HF)	N/A	A 45% to 260°	NR	NR	NR	A (PTFE Encapsulated 316 Stainless St.)	A	AC 25-100% to 120° ** (OK Fluorinated/TEST)	A	A°	NO DATA	NO DATA	NO DATA	NR	A to 140°	AB	A	AB any conc to 104°	NO DATA	NR	
Boric Acid (Orthoboric Acid, Hydrogen Orthoborate)	BH3O3 (10043-35-3)	A	A to 140° AB > 140°	A to 200°	A to 212°	A	A	A to 150°	A to 175°	A	A to 5% to 70°	A to 70°	A to 200°	A to 125°	A to 185° B > 185°	A to 176° AB > 176°	A	A to 140° AB 140-200°	A to 70°	A to 70°	
Butyl Acetate (N-Butyl Acetate)	C6H12O2 (123-86-4)	A	A	A to 200°	A to 70°	A to 500°	NR	AC at 70° BC at 120°	A to 70° AB at 80-100° C at 104-120°	A to 500°	AB to 70°	NO DATA	NR at 70°	NR at 70°	NR at 70° Viton ETP, "B" HIFLUOR A to 70°	B at 70°	A	NR at 70°	BC @ 70°	NR at 70°	
Butyl Alcohol (N-Butanol)	C4H10O (71-36-3)	A	A	A to 200°	A to 70°	A	AB to 100% to 180°	A to 150°	AB to 120° NR @ 150°	A	A to 70° AB to 140°	NR	A to 200 (No Stress) B @ 70° < 1 KSI	A to 200° (No Stress) AB to 70°	A to 70°	AB to 100°	A	A to 100% to 140° AB to 190°	B @ 70°	B @ 70° (Static) C @ 70° (Dynamic)	
Butyric Acid (Butanoic Acid)	C4H8O2 (107-92-6)	A to 212°	A to 25% to 150° AB 25-100% to 200° B 5-25% 150-212°	A to 200°	A to 70°	A	A to 150°	C to 80° @ 70° C/NR 80-100% ** (OK Fluorinated/TEST)	AB	A	B/NR 1-100% @ 70°	NR	B @ 70-120°	NR	BC 20-100% @ 70° HIFLUOR A to 70°	C @ 70° (Dynamic) B to 140° (Static)	A to 70°	AB to 20% to 70° NR 30-100%	A to 70°	NR	
Calcium Carbonate (Aglime)	CCaO3 (471-34-1)	B to 100% to Boiling	A Dilute to 120° AB@100%	A to 150°	A to 70°	A to 500°	A to 248°	A to 160°	A to 258° AB to 285°	A to 500°	A to 10% to 150° AB to 180°	NO DATA	NO DATA	C at 70-150°	A to 248°	A to 140°	A to 70°	A to 200°	A to 70°	A to 100% to 70°	
Caprylic Acid (Octanoic Acid)	C8H16O2 (124-07-2)	NO DATA	NO DATA	NO DATA	A	A	A to 125° BC @ 250°	BC @ 70 - 150°	A to 158° B/NR 175-285°	A	NO DATA	NO DATA	NO DATA	NO DATA	AB to 140°	NO DATA	A	C @ 70°	NO DATA	NO DATA	

WARNING:
The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS®, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!

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(Updated 08/10/2011)

		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)					WARNING: The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!																										
		Swelling		Loss of Tensile Strength																													
		Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)																												
		A B C NR	< 10% <= 15% < 20% > 20%	<= 15% <= 30% <= 50% > 50%	< 15% <= 30% < 50% > 50%	<=15% <= 30% <= 60% > 60%															Excellent, little or no swelling, softening or surface deterioration Good chemical resistance, minor swelling, softening or deterioration Limited chemical resistance, moderate attack, conditional service Severe attack, not recommended for use												
		NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																															
CHEMICAL		SPRING Materials					COUPLING Materials							SEAL Materials																			
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone													
Ceric Ammonium Nitrate (CAN)	CeH8N8O18 (16774-21-3)	NO DATA	NO DATA	NO DATA	A	A	NO DATA	** (OK Fluorinated/TEST) NO DATA	NO DATA	A	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA													
Chlorine (Anhydrous) (Dichlorine, Chlorinated water)	CL2 (7782-50-5)	A to 140° (to 10 ppm to 70°)	A to 70° (to 10 ppm to 70°)	NR	A to 10% to 70° NR Conc. @ 70°	A (PTFE Encapsulated 316 Stainless St.)	NR	A to 2% to 140° NR	A to 100% to 200° AB at 100% to 230° NR	A	NR at 10-100% at 70°	NR	NR at 70°	NR at 70°	C 400 ppm at 70°	B 400 ppm at 70° C 400 ppm at 104°	A to 70°	C sat'd at 70° NR 400 ppm at 70°	NR	NR at 70°													
Chlorine Dioxide (Chlorine Peroxide) (CDG Solution 3000, 0.3% Sol., 3000 ppm) CLOROX® (5.25% Sodium Hypochlorite)	CLO2 10049-04-4 CLNaO	A to 70° AB 15% to 175° C 8-10% @ 150°	A 4-5% to 36° NR 10-100% @ 70°	A	NR	A	NR 15-100% @ 70°	** (OK Fluorinated/TEST) NR @ 70°	A to 70° (Stressed) B to 120° (Stressed) NR with UV Present	A	NO DATA	B @ 70°	NO DATA	NO DATA	AB to 8% @ 70° NR 15% @ 70° A 8% (HIFLUOR)	NR 8% @ 70°	A	NR 8% @ 70°	NR @ 70°	C/NR @ 70°													
Citric Acid	C6H8O7 (77-92-9)	A to boiling	A to 50% B@100% 70-212° NR 60-100% >125°	A to 200° (13 months BC @ 200° (1 yr) C @ 70 (1 yr)	AB	A	A to 120° AB to 175° NR @ 212°	A to 150°	A	A	A to 0.03% to 140° NR 5%	BC @ 70°	A to 200°	A to 70°	A	AB to 140°	A	B	B @ 70°	AB to 70°													
Copper Sulfate (Cupric Sulfate)	CuO4S (7758-98-7)	A to boiling	A to 100% to 160° A to 45% to 180° A to 10% to 2121°	A to 223°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A	A to 100% to 160° AB to 100% at 180°	A	A	AB at 15% at 140-150° B at 15-100% at 70° C at 100% at 140-150°	A 10% to 70° B 20% 2 70°	A to 100% to 150° A to 100% 10 70°	A to 100% to 70° B at 10-15% at 120° C at 15% at 150°	A	A	A	A to 200° B at 212°	A to 70°	A to 200°													
Corn Oil	NA	A	A	A to 100°	A to 70°	A	A	A	A	A	AB	A to 70°	A	A	A	NR	A	A	A to 212°	A to 200°													
Corn Syrup	NA	NO DATA	A	A to 100°	A to 70°	A	A	A to 150°	A	A	AB to 140°	AB to 70°	A	A	A	A	A	A	NO DATA	A to 200°													
Cotton Seed Oil	NA	A	A	A to 200°	A	A	A	A to 140°	A	A	AB	NO DATA	A	A	A	A	A	A	AB to 70°	A to 200°													
Cresol (M, O & P)	C14H16O2	AB to 200°	AB 100° A 100% to 140°	A to 200°	A to 70°	A	NR	AB to 50% C/NR 50-100% @ 70° ** (OK Fluorinated/TEST)	A to 150°	A	NR 50 - 100%	NR	NO DATA	NR	A to 104°	NR	A	C/NR	NR	C/NR													
Cyanide Solutions (Hydrogen Cyanide, Formonitrile) (Hydrocyanic acid solution, <20%) Cyclohexanone (Cyclohexyl ketone)	CHN (74-90-8) C6H10O (108-94-1)	A 50% to 70° B 100% to 224° A 100% to 140°	A 10% to 70° B 10% @ 212° A 100% to 140°	NO DATA	A tio 212°	A	A to 180°	A to 150° AB to 180°	A	A	NR	B @ 70°	B @ 70-200°	B @ 70°	A to 140°	A to 140°	A	AB to 140°	AB 100%	AC @ 70° NR @ 120°													
Diacetone Alcohol (Dikeytone Alcohol, Pyranton)	C6H12O2 (143-42-2)	A to 140°	A @ 10% to 77% AB @ 100% to 480°	NO DATA	A	A	AB to 70° B at 70-100° NR at 120° A to 104° B to 120° NR @ 150°	NR	AB to 122°	A to 500°	A to 70° AB to 140°	NR	NR at 70°	NR at 70°	HIFLUOR A to 70° NR	A to 160° AB to 300°	A	NR	B @ 70°	B/NR @ 70° NR @ 158°													
Dibutyl Phthalate (DBP)	C16H22O4 (84-74-2)	AB to 200°	AB to 150° AB @ 100% to 480°	A to 200°	A to 70°	A	AB to 185°	BC @ 70-140° NR >140°	AB to 70° B @ 104-122° NR @ 160°	A	A to 70° AB to 140°	NR	AB to 185° NR @ 200°	NR	BC 70-104° (static) NR (dynamic) A Viton ETP	AB (static) C (dynamic)	A	NR	B @ 70°	B @ 70 (static) C (dynamic)													
Dichloroacetic Acid (DCA)	CL2CHCO2H (79-43-6)	NO DATA	NO DATA	NO DATA	A to 100° NR >100°	A (PTFE Encapsulated 316 Stainless St.)	AB to 100% to 125°	BC at 70°	AB to 50% to 212° AB 100% to 125°	A	NO DATA	NO DATA	NO DATA	NO DATA	NR	NR	A	NR	NO DATA	NR													
Dichloromethane (Methylene Dichloride)	CH2CL2 (75-09-2)	AB	A to 70°	A 100% to 70° A/NR 40% @ 100°	NR	A (PTFE Encapsulated 316 Stainless St.)	B/NR @ 70° C/NR @ 88-122°	NR	AB to 100° to 100° B 100% 104 - 125°	A	A to 70°	NR	NR at 70°	NR at 70°	HIFLUOR A to 70° B @ 70°	BC to 130° NR @ 140°	A	NR at 70°	NR	NR													
Diesel Fuel	N/A	A to 140° AB to 200°	A to 200°	A to 200°	A to 70°	A	AC @ 70° BC @ 120°	A to 70° BC @ 140°	AB to 125°	A	A to 150°	NO DATA	A to 200°	A to 200°	A (Low sulfur & #2) A (#2 & Ethanol) B (#2 & Methanol) A	NR	A	A to 70° AB to 250°	C/NR	NR													
Diethylene Glycol (Ethylene Diglycol, Carbitol, Glycol Ether)	C4H10O3 (111-46-6)	B 100% @ 70°	A	NO DATA	A 90% to 70°	A	A to 225°	A to 140°	A to 140°	A	A 90 - 100% to 70°	B @ 70°	B @ 70-122°	B @ 70°	NR	A	A	A	A	B 70-200° C @ 70° (Dynamic)													
Diethanolamine (DEA, Diolamine)	C4H11NO2 (111-42-2)	A	A	NO DATA	A to 120° B @ 150° NR > 150°	A	A 100% to 150° AB 100% to 225°	AB to 70°	NR	A	NO DATA	NO DATA	A to 70°	NO DATA	NR	AB 70-160°	A	NR	A to 70°	NR													
Diisopropylether (Isopropylether)	C6H14O (108-20-3)	NO DATA	NO DATA	A to 70°	A	A	NR	B/NR at 70° NR at 140°	A 100% to 100°	A	A to 70°	NO DATA	NR	NR	HIFLUOR B to 70° NR	NR	A	B to 100% to 140° NR @ 200°	C/NR @ 70°	NR													
Dimethyl Acetamide (DMAC)	C4H9NO (127-19-5)	A	A	NO DATA	A	A	AB to 125°F	A to 122°	NR	A	NO DATA	NO DATA	NR at 70°	NR at 70°	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	AB to 70° C @ 70° (Dynamic)													
Dimethyl Sulfoxide (DMSO)	C2H6OS (67-68-5)	A	A	A to 200°	B @ 70-122°	A	A to 125°	A to 122°	NR	A	NR	NO DATA	NR	NR	NR	A to 70°	A	NR	A	A to 70° (Static) C @ 70° (Dynamic)													
Diocetyl Phthalate (DOP)	C24H38O4 (82208-43-3)	A to 100°	A @ 100% to 100° AB to 480°	A to 200°	A	A	NR	C/NR @ 70° NR @ 120°	AB to 70° BC @ 104° C @ 104	A	A to 70°	NR	A @ 100% to 70°	NR	NR	B 70-200° (static) C @ 70° (dynamic)	A	NR	NR	NR													
Dipropylene Glycol (Polypropylene Glycol)	C6H14O3 (78644-49-2)	NO DATA	NO DATA	NO DATA	NO DATA	A	A to 125°	A to 122° AB to 150°	AB	A	A to 70°	NO DATA	B @ 70-122°	B @ 70° C @ 122°	HIFLUOR A to 70° A to 70°	A to 70°	A	A to 70°	A to 70°	NO DATA													
Dipropylene Glycol Methyl Ether (DPGME)	C7H16O3 (83730-60-3)	NO DATA	NO DATA	NO DATA	NO DATA	A	AB to 150°	NO DATA	AB to 75°	A	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA													
DI water (Deionized Water) (Ultra Pure Water, 17 megaohm +) Ethanolamine (ETA, 2-Aminoethanol)	H2O C2H7NO (9007-33-4)	A	@ 12 - 18.2 megaohm A @ < 12 megaohm	A to 200°	A	A (PTFE Encapsulated 316 Stainless St.)	A	A to 140°	A	A	NO DATA	A to 70°	A to 200°	NO DATA	A to 70° AB to 200°	A to 70° AB to 200°	A	A to 70° AB to 200°	NO DATA	AB to 70° C @ 70° (Dynamic)													
Ether	C4H10O	A@100% to 200°	A@100% to 212°	A to 200°	A to 212°	A to 500°	NR	NR at 100% at 140°	AB to 94°	A	A to 70°	NR	NR at 70°	NR at 70°	NR	NR	A	NR at 70°	NR	NR													

CHEMICAL COMPATIBILITY TABLE
For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials
(Updated 08/10/2011)

		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)					WARNING: The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!														
			Swelling		Loss of Tensile Strength																Description of Chemical Attack
			Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)															
		< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration															
		< 15%	<= 30%	< 30%	<= 30%	Good chemical resistance, minor swelling, softening or deterioration															
		< 20%	<= 50%	< 50%	<= 60%	Limited chemical resistance, moderate attack, conditional service															
		> 20%	> 50%	> 50%	> 60%	Severe attack, not recommended for use															
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																					
CHEMICAL		SPRING Materials					COUPLING Materials							SEAL Materials							
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone	
(Ethyl Ether) (Diethyl Oxide)	(60-29-7)	A to 56% to 171°						** (OK Fluorinated/TEST)	B @ 104° NR @ 140°		AB at 140°				HIFLUOR A to 70°						
Ethyl Acetate (Acetic Ether)	C4H8O2 (141-78-6)	A	A	A 100% to 100°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	A to 180°	BC at 100% at 70° C at 100% at 122°	A to 70° B @ 100 - 122° NR @ 170°	A	A to 10% to 200° AB at 100% to 70° BC at 100% at 140° A to 70°	AC @ 70°	NR at 70°	NR at 85-100% at 70°	NR	A @ 100% to 130°	A	NR at 70°	NR	B @ 70° NR @ 200° C @ 70° (Dynamic) NR	
2 Ethoxy Ethyl Acetate (Ethoxyethanol Acetate)	C6H12O3 (111-15-9)	A	A	A	A to 70°	A	BC @ 70-120° NR @ 140°	** (OK Fluorinated/TEST)	AB to 122°	A		NO DATA	NR	NR	C/NR	B	A	NR	C/NR		
Ethyl Alcohol (Ethanol/ Grain Alcohol) (Denatured Alcohol)	C2H5OH (64-17-5)	A to 100% to 212°	A to 100% to 200°	A	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 180°	A to 100% to 160°	A to 100% to 176° AB to 100% to 280°	A	A at 96-100% to 70° B at 100% at 120-180°	AB to 70° (No stress)	A to 70% to 70° B at 100% at 70-120° NR at 100% at 200°	A to 90% to 70° AB at 96-100% to 70° B at 40-100% at 120°	A to 70°	A to 200°	A	A to 140° B to 185°	A to 70°	AB to 200° C @ 70 (Dynamic)	
Ethyl Benzene (Phynlethane)	C8H10 (110-41-4)	A to 240°	A to 100% to 70° AB to 100% to 70°	NO DATA	A	A	NR	BC @ 70-120°	A to 140°	A	A to 70°	NO DATA	NR	NR	A	NR	A	NR	C @ 70°	NR	
Ethyl Lactate (Acytol, Lactic Acid Ethyl Ester)	C5H10O3 (97-64-3)	A	B	A	A @ 70°	A	A to 122°	** (OK Fluorinated/TEST)	A to 122°	NR	NO DATA	NO DATA	C @ 70-122°	C @ 70° NR @ 122°	BC	A to 70	A	BC @ 70°	NO DATA	AB to 70°	
Ethylene Glycol (Glycol Alcohol) (Prestone®)	HOCH2-CH2OH (107-21-1)	A 20-100%	A 40-100% to 200° A 100%	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A	A to 160°	A	A	A to 100% to 120° AB to 140° B at 180°	A to 70° B @ 140°	A to 100% to 200°	A to 160° B to 200°	A to 176° A to 250°	A to 212°	A	A to 212°		A	
Ethylene Glycol Mono Butyl Ether (Butyl Cellosolve)	C6h14O2 (111-76-2)	A to 200°	A to 200°	A to 200°	A	A	AB to 140°	B/NR @70°	A to 104° NR @ 212°	A	AB to 70°	NO DATA	A to 70° BC @ 120°	NR	NR	A to 200°	A	C 70 - 150°	A to 70°	NR	
Ethylene Oxide (EO, EtO, Oxiraine)	C2H4O (75-21-8)	A to 70°	AB to 200°	NR	A	A	C @ 70-120° NR @ 140°	** (OK Fluorinated/TEST)	BC @ 70°	A	A to 70° AB 100% 122-140°	NR	A to 300°	C @ 70° NR @ 125°	HIFLUOR A to 70° NR	B @ 12% @ 70° C/NR @ 70°	A	NR	A to 70°	NR	
Ferric Sulfate (Sulfuric Acid)	Fe2O12S3 (10028-22-5)	A to 100% to 140°	A to 10% to 212° A 20-100% to 140°	A	A	A	A	A to 100% to 150°	A	A	B to 180°	A to 70° AB @ 120°	A to 100% to 200°	A to 70°	A to 176° B @ 212°	A to 176° AB to 200°	A	A to 140° AB to 200°	A to 70°	AB to 160°	
Formaldehyde (Formalin)	CH2O (500-00-0)	A to 20% B 20-100% to 200°	A	A to 100% to 70° NR 37% @200°	A	A	A	A to 80° B @ 150°	A to 100% to 104° A to 37% AB 40-100% @ 140°	A	A to 70° AB to 40% 140-180°	A to 40% to 70° AB 40% @ 120°	AB to 100% to 70°	A to 100° AB to 100% @ 120°	A to 176° A to 37% to 212°	A to 120° A to 37% to 212°	A to 104°	A to 40% to 140° B @ 40% @ 212°	AB to 70°	B 40-100% @ 70° C @ 70 (Dynamic)	
Formic Acid (Formylic Acid)	CH2O2 (64-18-6)	A to 100% to 200°	A to 5% AB 5 - 80% to 212° B 80 - 100% to 212°	A to 100% to 70° A to 40% to 200° NR @ 37% @ 150°	AB to 10% to 70° BC 100% @ 70°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 70° A to 40% to 104° C 100% @ 140°	A to 100% to 104° AB at 50-100% at 140-150° BC at 100% at 180°	A to 100% to 212°	A	NR at 3-100% at 70°	A to 10% to 70° NR @ 70°	A to 10% to 70° B at 10-50% at 70-120° C 98-100% at 70-120°	A to 50% to 70° AB at 50-100% to 70° B at 3-50% at 120°	AB to 50% to 104° NR 60-100% @ 70° (HIFLUOR A to 70°)	A to 200° A to 90% to 212°	B	B to 50% at 70° NR 50-100% at 70° NR at 100% at 140° C @ 70° (R12 Wet) NR (R22)	A to 70°	B @ 70° C @ 120°	
FREON's (Refrigerants, General)	CH2FCF3 (R134a) (811-97-2)	A	A	A to 70°	A to 70°	A	AB (Wet) C/NR (Dry)	A/NR @ 70° A to 80° (R12) A to 70° (R22)	A to 212°	A	AB to 140° (Celcon)	NR	NR	NR	NR	AB (R12) A to 140° (R22) A to 70° (R134a)	A to 70°	A to 70° (R134a)	NR	NR	
Gasoline (Petrol)	NA	A	A to 200°	A to 176°	A to 212°	A to 500°	NR at 70°	NR	A to 275° AB to 285°	A to 500°	A to 70°	NR	A to 70°	C at 70°	A to 190°	NR at 70°	A to 70°	A/NR (Test for additives effect! FKM better)	C/NR	NR at 70°	
Glycerin (Glycerol)	C3H8O3 (56-81-5)	A to 100% to 212° A @ 100% to 600°	A to 100% to 200° A @100% to 300°	A to 200°	A to 100% to 70°	A to 450°	A to 100% to 225°	** (OK Fluorinated/TEST)	A to 160° A to 150° AB to 180° A to 150°	A to 450°	A to 140°	AB @ 70-140°	A at 100% to 200°	A to 125°	A to 250°	A to 176° AB to 200°	A to 70°	A to 250°	A to 70°	A to 70°	
Glycol (polysorbate 80) (Polyoxyethylene Sorbitan Monooleate)	C32H60O10 (9005-65-6)	A 20-100%	A @ 100% to 70°	A to 200°	A to 212°	A	A	A to 150°	A	A	A to 120° AB to 140°	A to 70° B @ 140°	A to 200°	A to 160°	A to 70° AB to 400°	A to 70° AB to 300°	A to 70°	A to 70° A to 220°	AB to 70°	A to 70°	
Glycolic Acid (Hydroxyacetic Acid)	C2H4O3 (79-14-1)	A	A to 225°	A to 200°	A to 212°	A	A to 100% to 180°	AB to 150°	A to 100% to 100° A to 65% to 212° NR 100% @ 176°	A	A to 70°	B @ 70°	NO DATA	NO DATA	A 10% to 140% A to 200°	A to 70°	A	A to 100% @ 70° A to 70% to 140° NR @ 70° (dynamic)	A to 70°	AB to 70° C @ 70 (Dynamic)	
Hexane (Dipropyl) (N-Hexane)	C6H14 (110-54-3)	A	A @ 100% to 200°	A to 200°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	BC @ 70-104° C @ 120-140° NR @ 140°	NR	A	A	A to 70°	NR	A to 100% to 200°	A to 158° NR at 80-120°	A to 200°	NR	A	A to 70°	AC @ 70°	NR	
HMDS (1,1,1,3,3,3-Hexamethylsilazane) Bis(trimethylsilyl)amine	C6H19NSi2 (999-97-3)	NO DATA	NO DATA	NO DATA	NO DATA	A (PTFE Encapsulated 316 Stainless St.)	NO DATA	** (OK Fluorinated/TEST)	NO DATA	A	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	A	NO DATA	NO DATA	A	
Honey	NA	A to 70°	A to 140°	NO DATA	A		A to 70° AB @ 180°	A to 140°	A	A	A to 70°	B @ 70°	NO DATA	A to 70°	A to 140°	A to 140°	NO DATA	A to 140°	A to 70°	A to 70°	
Hydrazine (Diamine)	H4N2 (302-01-2)	A to 70°	A to 140°	NO DATA	A	A	NR 35-100% @ 70°	A to 70°	A	A	B @ 70°	NO DATA	NR	NR	A Aqueous to 70° NR HIFLUOR A to 70°	A to 100% @ 70°	B A 64% to 70°	AB 24% @ 70° BC 64 - 1005 @ 70% B Anhydrouse	A to 70°	B to 100% 70 -200°	
Hydrobromic Acid (Hydrogen Bromide)	HBr (10035-10-6)	A @50% to 80° A @100% to 140° AB to 20% to 70° A to 40% to 140° NR 5-100% 175°	NR	A to 37% to 100° A to 70°	NR	A (PTFE Encapsulated 316 Stainless St.)	A 20% to 225° A to 50% to 150° B Conc. to 185°	A to 20% to 160° A to 50% to 140° AB 50-100% at 70-150° A 38-100 to 275°	A dilute to 250° A to 37% to 70° A 38-100 to 275°	A	NR	NR 20% @ 70°	A to 20% to 300° B at 30% at 70°	NR at 30-100% at 70°	A to 140°	A to 200°	A	NR	B 30-100% @ 70°	NR 20-100% @ 70°	
Hydrochloric Acid (Muriatic Acid = 30% HCL)	HCL (7647-01-0)		NR 3-100%	A to 10% to 200° C/NR 37-100% @70°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 70° A to 36% to 150° A to 10% to 185°	A to 100% to 140° A to 40% to 160° AB to 40% to 150°	A to 100% to 140° A to 38% to 194° A to 50% to 175° AB 40-70% to 70°	A	A to 10% to 70° NR at 30-100% at 70°	AB 10-50% to 70° BC 50-100% @ 70° NR 50-100% @ 150°	A to 100% to 70° A to 50% to 140° A to 37% to 200°	A to 10% to 200° AB at 20% at 70-200°	A to 100% to 70° A to 37% to 160°	A to 25% to 140° AB to 37% to 130° A to 10% to 176°	A	AB 20-37% to 70° AB to 15% to 150° C 37% @ 150°	A to 70°	AB to 20% to 125° C @ 37% @ 150° BC 50% @ 70°	
Hydrofluoric Acid (Hydrogen Fluoride) (HF)	HF (7664-39-3)	A to 100% to 70° A @90% to 125°	A to 10% AB @16% to 120° NR 45-80%	A to 50% to 140° A to 35% to 200° NR > 50%	NR 4-100% @70°	A (PTFE Encapsulated 316 Stainless St.)	A to 50% to 140° A to 40% to 200° A to 30% to 225°	A to 60% to 140° A to 40% to 180° A to 30% to 160°	A to 100% to 212°	A	NR at 70°		A to 10% to 200° AB 25-38% at 70-200°	A to 10% to 180° AB at 20% to 70° BC at 35% at 70°	A to 60% to 130° A to 50% to 176° A to 30% to 212°	A dilute to 212° AB to 60% to 130° AB to 65% to 70°	A	AB 10% to 70° C 20-30% to 130°	C 20-25% @ 70° NR 50-100% @ 70°	NR	
Hydrogen Peroxide (Hydrogen Dioxide)	H2O2 (7722-84-1)	A to 100% to 75° A to 50% to 200°	A to 30% to 104° A 50-100% to 70°	A to 10 to 200° AB to 30% to 100° NR 50-100% @ 70°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 80% to 70° A to 5% to 170° NR 30% > 125° A to 180°	A to 30% to 140° AB at 30-90% to 120° AB at 30-100% to 70°	A to 200° A to 30% to 212°	A	NR at 4-100% at 70°	A to 10% to 70° NR 100% @ 70°	A to 100% to 70° A to 90% to 120° B at 30% at 180°	A to 100% to 125°	A to 104° A 50% to 200° AB @ 100% @ 160° B	B 5% to 140° B 3-30% @ 70°	A (White 571 & 592) AB (Black 550)	B 3% at 70° BC 10% to 80°	A to 100% to 70°	A to 90% to 70° B @ 100% @ 70°	
Hydroquinone	C6H6O2 (8027-09-2)	B @ 70°	AB to 100% to 70° A 5% to 120°	NO DATA	A (Low concentration)	A		A to 140°	A	A	A to 70°	NO DATA	NO DATA	NO DATA		B/NR 70-140°	AB	C/NR	A to 70°	B @ 70°	
Hydroxyacetic Acid (Glycolic Acid)	C2H4O3 (79-14-1)	A	A to 225°	A to 200°	A to 212°	A	A to 100% to 180°	AB to 150°	A to 100% to 100° A to 65% to 212° NR 100% @ 176°	A	A to 70°	B @ 70°	NO DATA	NO DATA	A 10% to 140% A (HIFLUOR)	A to 70°	A	A to 100% @ 70° A to 70% to 140° NR @ 70° (dynamic)	A to 70°	AB to 70° C @ 70 (dynamic)	
Iodine	I2 (7553-56-2)	A	A 9-10% to 72° NR >10%	NR	BC @ 70°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% @ 75° AB to 100% @ 176°	A to 6.5% to 70°	A to 100% to 170° C 100% @ 212	A	A to 70° C/NR at 100% at 70°	NO DATA	NR	NR	A to 100% to 140°	AB to 160°	A	A 6.5% to 70° B to 140°	A to 70°	B (solutions @ 70°) C/NR @ 70°	

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		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)					WARNING: The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!																										
			Swelling		Loss of Tensile Strength															Description of Chemical Attack													
			Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)																											
																					A B C NR	< 10% < 15% < 20% > 20%	<= 15% <= 30% <= 50% > 50%	< 15% < 30% < 50% > 50%	<=15% <= 30% <= 60% > 60%								
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																																	
CHEMICAL		SPRING Materials																		COUPLING Materials								SEAL Materials					
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)														Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
Iso Butyl Alcohol (Isobutanol, Isopropylcarbinol))	C4H100 (78-83-1)	A to 140°	A to 140° AB to 480°	A to 200°	A	A														A to 122°	A to 140°	A to 275°	A	A to 70°	NO DATA	A to 70° AB @ 122-200°	A to 70° AB @ 122-200°	A to 160° AB to 400°	A to 160° AB to 300°	A	C @ 70° (Dynamic) B to 160° (Static)	C/NR @ 70°	A to 160°
Isopropyl Acetate	C5H1002 (108-21-4)	B @ 70°	A to 100% to 175°	NO DATA	A	A	AB to 100% @ 176° C @ 125°	A to 70°	A to 280°	A	A/NR @ 70°	NR @ 70°	C/NR @ 70°	NR	NR	AB to 160°	A	NR	B @ 70°	NR													
Isopropyl Alcohol (IPA, Isopropanol, 2-Propanol)	(CH3)2CH-OH (67-63-0)	A@100% to 212° A@47% to 356° A@11% to 70°	A to 100% to 140° A@100% to 212°	A to 200°	A to 75°	A (PTFE Encapsulated 316 Stainless St.)	A to 225°	A to 160°	A to 150° AB to158°	A	A to 70°	A to 70° (No stress)	A to 122° AB at 185°	A to 125°	A to 170° B @212°	A to 160° B @176°	A	A to 70° B any conc to 130°	A to 70°	A to 160°													
KEROSENE	NA	A	A	AB to 200°	A to 70°	A	AB to 80° BC @ 122° NR @ 140°	C/NR @ 70° NR @ 100°	A	A	A to 180°	BC @ 70°	AB to 200°	A to 70° AC @ 122°	A to 158°	NR	A	A	NR	NR													
Keytones (MEK, 2-Heptanone, MAK, etc.)	NA	A to 200°	A	A	A to 212°	A	AB to 80°	** (OK Fluorinated/TEST) B @ 70°	NR	A	AB to 120°	NR	NR	NR	NR	A to 200°	A	A to 200°	NR	NR													
Lactic Acid	C3H6O3 (50-21-5)	A to 85% to 125° B 65-100% to 212°	A to 75% to 120° A @ 100% to 120° B 25 75% 125-212° A to 140°	A	A	A	A to 100% to 150°	A to 140°	A to 100% to 100° B 100% @ 120° AB to 80%	A	AC to 100% fr 70-140°	NR	A to 100% to 200° A to 60% to 300°	A to 100% to 70° AB to 100% @ 122-200°	A to 100% to 140° A to 80% to 176°	A to 100% to 140° A to 80% to 176°	A	A to 100% to 70° B 25-80%@104° C 25-80%@104°	A to 70°	A to 70° B 140 - 200°													
Limonene (D-Limonene / DL-Limonene) (Orange Oil)	C10H16 (138-86-3) (59-8927-5)	A to 70°	A to 140°	NO DATA	A	A	B @ 70° C @ 122°	B @ 70° C @ 122°	A to 260°	A to 122°	NR @ 70°	NO DATA	C @ 70 - 122°	C @ 70 - 122°	A to 140°	NO DATA	NO DATA	A to 140°	C @ 70°	NR @ 70°													
Methane Sulfonic Acid (MSA)	CH4O3S (75-75-2)	NO DATA	NO DATA	NO DATA	NR	A	A to 125° NR @ 140°	NR @ 70°	A to 200°	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	NR	A	A to 70°	NO DATA	AB to 70° (static) C (dynamic)													
(Alkane Sulfonic Acid) Methoxy Butanol (3-Methoxy-1-Butanol)	C5H12O2 (2517-43-3)	NO DATA	NO DATA	NO DATA	A	A	NO DATA	NO DATA	NO DATA	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	AB @ 70°	A	A to 70°	NO DATA	NO DATA													
Methoxy Ethanol (Ethylene Glycol Monomethyl Ether)	C3H8O2 (109-86-4)	NO DATA	NO DATA	NO DATA	A	A	A to 122°	A to 122°	A to 122°	A	NO DATA	NO DATA	NR	NR	BC @ 70° NR (Dynamic) HIFLUOR A to 70°	A to 70°	A	BC @ 70° NR (Dynamic)	NO DATA	AB to 70° C @ 70° (Dynamic)													
Methylacrylic Acid (Methacrylic Acid)	C4H6O2 (79-41-4)	A to 131°	A to 194° (liquid) A to 131° (vapor)	NO DATA	NO DATA	A	NO DATA	NO DATA	A to 125°	A	NO DATA	NO DATA	NO DATA	NO DATA	NR Viton ETP "A" HIFLUOR A to 70°	B @ 70°	A	NR	NO DATA	NR													
Methyl Alcohol (Methanol, Wood Alcohol)	CH3OH (67-56-1)	A to 212°	A	A to 150°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 70° BC 100 @ 180°	A to 100% to 122° AB at 100% at 140° B/NR at 100% at 150-180°	A to 148° AB 212-257°	A	A to 140° B at 180°	NR	A at 100% to 70° C at 100% at 120° NR at 100% at 200° NR at 100% at 70°	AB at 50% to 70° B at 70° C at 122°	NR	A to 160° AB to 176°	A	A to 70° AB any conc to 150°	A to 70°	A to 100% to 70° A @ 100% to 158°													
Methylene Chloride	CH2CL2 (75-09-2)	A	A to 100% to 200° A to 90% to 212°	A 100% to 70°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	NR	NR	AB to 100°	A	A to 70°	NR	NR	NR	HIFLUOR A to 70° B @ 70°	BC to 130°	A	NR at 70°	NR @ 70°	NR													
Methyl Ethyl Ketone (MEK)	C4H8O (78-93-3)	A to 200°	A to 200°	A to 100% to 70°	A to 212°	A to 500°	A to 100% to 70° AB at 100% at 125° AB at 100% at 122°	BNR @ 70-122°	NR	A to 500°	A to 70° AB at 70-180°	NR	NR at 40-100% at 70°	NR at 100% at 70°	NR at 70°	A to 140° AB to 240°	A to 70°	NR any conc at 70°	BC @ 70°	NR													
MINNCARE® Cold Sterilant (Hydr. Peroxide (24%), Peracetic acid (6%), Acetic acid (10%))	H2O2 C2H4O3 C2H4O2	A	A	AB	A	A	A	AC (Embrittles over time)	AB	A	NR	B	A	A	B	B	A	B	A	NR													
Mineral Oil (Baby Oil, Petrolatum)	NA (8012-59-1)	A to 200°	A	A	A to 70°	A	A to 100% B @ 104° C @ 120-140°	C @ 70°	A	A	A to 140°	AB to 70°	AB to 70°	A to 70°	A to 70°	NR	A	A	B/NR @ 70°	B @ 70° C @ 70° (Dynamic)													
Mineral Spirits (Petroleum Distillates, Dispersol) (Stoddard Solvent, Paint Thinner)	NA (8052-41-3) (64742-47-8)	B @ 70°	A	A to 70°	A	A	NR	C @ 70°	A	A	A to 70°	A/NR @ 70°	NR	B/NR @ 70°	A	NR	A	A	AB to 70°	NR													
Monoethanolamine (Aminoethanol, MEA)	C2H7NO (9007-33-4)	A	A	A 100% to 200°	A to 110° B < 110°	A	A 100% to 70° BC 100% 70-180°	AB to 70° B @ 122°	NR	A	NR	NO DATA	A to 200°	NR	NR	B @ 70-80° NR 100 @ 120°	A	A to 120° C @ 70° (dynamic)	A to 70°	B @ 70° NR @ 120°													
Motor Oil	N/A	A to 70°	A to 140°	A to 200°	A	A	A 100% to 70° C @ 120° NR @ 140°	B/NR @ 70°	A	A	A to 160°	B @ 70°	A to 200°	A to 200°	A to 190°	NR	A	A to 190°	AB to 70°	AB to 70° C @ 70° (Dynamic)													
N-Methyl 2-Pyrrolidone (NMP)	NMP CH3N(CH2)3CO (872-50-4)	A	A	A to 70°	A	A (PTFE Encapsulated 316 Stainless St.)	A	A	C/NR @ 70°	A	NO DATA	NO DATA	NR at 70°	NO DATA	AB @ 70°	A to 70°	A	NO DATA	NO DATA	NO DATA													
Naptha (Coal Tar)	(8030-30-6)	A to 140° AB to 200°	A 100% A 96% to 170° A 60% to 70°	A	A	A	A to 140° C @ 180°	NR	A	A	A to 70°	NR	B @ 70°	NO DATA	A	NR	A	AB to 250°	C/NR @ 70°	NR													
Naptha (Heavy Aromatic Naptha Solvent) (Hans Solvent, Aromatic 100, Solvent Naptha)	(64742-94-5) (64742-95-6)	A to 140° AB to 200°	A 100% A 96% to 170° A 60% to 70°	A	A	A	AB @ 70 - 150° C/NR @ 150 - 180°	BC @ 70° B/NR @ 120°	A	A	A to 70°	B/NR @ 70°	AB to 140°	A to 70°	A	NR	A	AB to 250°	C/NR @ 70°	NR													
Napthalene (Coal Tar Distillate)	C10H8 (91-20-3)	A to 130° B @ 180°	A	A	A	A	B @ 70° BC @ 70-140° NR @ 170°	B @ 70° (short duration) NR @ 70° (1 year)	A	A	A to 70° AB @ 140°	NR	C @ 70°	NO DATA	A to 176°	NR	A	NR	BC @ 70°	NR													
Nitric Acid (Hydrogen Nitrate)	HNO3 (7697-37-2)	A to 99% to 130° A to 50% to 140° AB@10% to 185° A to 70°	A to 100% to 120° A to 60% to 175° A to 50% to boiling A	A to 30% to 100° AB to 40% to 80° NR 50-100% @ 70°** A to 175°	A to 30% to 70° A to 10% to 212° NR 50% @ 70° A to 140†	A (PTFE Encapsulated 316 Stainless St.) A to 140°	A to 50% to 104° A to 30% to 180° A to 10% to 210° B/NR to 104°	A to 30% to 140° AB at 50% to 70° BC 50-70% @ 70° AB to 70°	A to 98% to 70° A to 90% to 140° A to 30% to 212°	A	NR	B 5-20% @ 70° NR @ 50%	A to 5% to 140° A to 40% to 70° B at 10% at 140° A to 70°	A to 20% to 70° AB at 20-50% to 70° B to 10% at 120° A to 150°	A 50% to 140° A 90-100% to 158° AC 60-70% to 70° A to 140°	A to 25% to 70° A to 10% to 104° B 25-30% to 140° NR	A	NR 0-100% at 70° A to 212°	A to 10% to 70° B 20% @ 70° C 50-70% @ 70° A to 212°	B Dilute @ 70° NR @ 70° (Fuming)													
Oil, Corn	NA										AB to 70°	A to 70°					AB any conc to 150°			A to 200°													
OILS/LUBRICANTS, General	NA	A	A	AB to 70° NR @ 120°	AB to 70° (SEA) NR (Crude & Diester)	A to 70°	NR	A	A	A	A to 158°	B @ 70°	A	A to 70°	A to 158°	NR	A	A	NR	NR													
Oil, Mineral	NA	A	A to 150°	A to 100° C/NR @ 140-160	C @ 70° NR @ 100°	A	A to 100° C/NR @ 140°	A to 140°	A	A	A to 140°	A to 70°	A to 200°	A to 70° B @ 120°-200°	A to 70°	NR	A	A	B/NR @ 70°	B @ 70°													
Oil, Olive	NA	A to 70°	A	A 100% to 176°	AB to 70°	A	B @ 70°	A to 150°	A	A	A to 150°	A to 70°	A to 73°	A to 150°	A to 176°	B @ 70°	A to 70°	A	B @ 70°	C @ 70° NR @ 250°													

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CHEMICAL COMPATIBILITY TABLE
For ChemQuik®, DrumQuik®, DrumQuik PRO & Other Common Colder Series Coupling Materials
(Updated 08/10/2011)

		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)					WARNING: The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!														
		Swelling		Loss of Tensile Strength		Description of Chemical Attack															
		A B C NR	Linear (Plastics)	Volumetric (Elastomers)	(Plastics)																(Elastomers)
			< 10%	<= 15%	< 15%																<=15%
			< 15%	<= 30%	< 30%																<= 30%
		< 20%	<= 50%	< 50%	<= 60%	Excellent, little or no swelling, softening or surface deterioration Good chemical resistance, minor swelling, softening or deterioration Limited chemical resistance, moderate attack, conditional service Severe attack, not recommended for use															
		> 20%	> 50%	> 50%	> 60%																
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																					
CHEMICAL		SPRING Materials					COUPLING Materials							SEAL Materials							
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone	
Oil, Vegetable	NA	A	A	A to 140° AB @ 160°	AC @ 70°	A	AC	A to 70°				C @ 70°			A to 200°	AC to 200°	A	A to 200°	BC @ 70°	AB to 70° B @ 200°	
Oxalic Acid (Ethanedioic Acid)	C2H2O4 (144-62-7)	A to 100% to 140° A to 50% to Boil B 60-100% to Boil A@2% to 140°	A to 50% to 100° A 20-50 to 125° B 60-90% @ 70°	A	A	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 140° A to 50% to 180°	A to 100% to 160° AB to 100% to 180° NR at 100% at 212°	A to 100% to 125° A to 60% to 212° B @ 100% @ 158°	A	C at 5% at 70-150° C at 10% at 70°	A to 70°	A to 100% to 70° AB at 5% to 180°	A to 10% to 70° B at 70°	A to 100% to 140° A to 50% to 176°	A	A	AB to 100% to 140° NR 10% boiling	A to 70°	B 70-250° C @ 70° (Dynamic)	
Ozone (trioxygen)	O3 (10028-15-6)		A to 70° A@2% to 140°	NO DATA	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	NR	AB weak conc. At 70° C sat'd in H2O at 70° NR at 2-100% at 105° C/NR @ 70°	A	A	NR	B @ 70°	A to 122°	AB 10 ppm in H2O at 70° NR 1-100% at 70°	A to sat. to 70° NR sat @ 140°	A to sat. to 70° NR sat. @ 140	A (White 571 & 592) AB (Black 550)	NR 2% to sat'd at 70°	A to 70°	A	
Paraffin	NA	A	A	A to 70°	A to 212°	A	A to 140°	** (OK Fluorinated/TEST)	A to 260°	A	A to 70°	AB	NO DATA	A to 70°	A to 400°	NR sat. @ 140	A to 70°	A to 250°	A to 70°	B to 250° C @ 70° (Emulsions)	
Pelargonic Acid (Nonanoic Acid)	C9H18O2 (112-05-0)	NO DATA	AB	AB	A	A	AB to 100°	AB	AB to 100°	A	NO DATA	NO DATA	NO DATA	NO DATA	B to 70° Viton ETP A to 70° HI FLOUR A to 70°	NO DATA	A to 70°	A to 70°	NO DATA	NO DATA	
Peracetic Acid (Peroxyacetic Acid, POAA)	C2H4O3 (79-21-0)	A	A	A	A	A	AC 40% @ 70°	AC/NR (Embrittles over time)	AB to 40% to 70°	A	NR	NO DATA	NO DATA	NR	A to 1% @ 70° C @ 100% @ 70° HIFLUOR A to 70° A to 140°	A 1 & 100% @ 70° B 10% @ 70°	A to 70°	C 100% @ 70° NR 1-10% @ 70°	NO DATA	B 100% @ 70° NR 1-10% @ 70°	
Phenol (Carbolic Acid)	C6H6O (108-95-2)	A	A	A to 100° C @ 100% @ 200°	A Dilute to 70° NR 75-100% @ 70° Dissolves @ 75%	A	A to 104° AB to 130°	A to 5% to 70° AB 70-85% @ 70° NR 90-100% @ 70°	A to 100% to 158°	A	NR	NR	A to 5% to 70° NR 100% @ 70°	A to 5% @ 70°		NR 5 - 100%	A	NR	A/NR @ 70°	NR	
Phosphoric Acid	H3PO4 (7664-38-2)	A to 200° A to 50% to boiling	A to 40% to 240° A to 70% to 150°	A	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 185° A to 75% to 225°	A to 100% to 140° A to 75% to 160° AB to 90% at 160-180° NR	A	A	C at 0.3-10% at 70° NR at 10-100% at 70°	AB to 40% to 70° B 40% @ 70° C 50-100% @ 70°	A to 100% to 200° A to 85% to 250° NR at 85% at 300°	A to 100% to 70° A to 25% to 158° B at 85% at 120°	A to 140° A to 85% to 176° A 75% to 212° A to 70°	A to 130° A to 85% to 176° B to 30% to 212° NR	A	A to 10% to 104° AB to 50% to 104° AB 30% to 104° NR	A to 45% @ 70° B 45 @ 70/18 C 50-100% @ 70	NR	
Phosphorous Oxychloride (Phosphoryl Chloride)	CL3OP (10025-87-3)	NO DATA	B (Dilute) @ 300° NR @ 100% to 160°	NO DATA	A to 212°	A	NR	** (OK Fluorinated/TEST)	A to 122°	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	NR	A	NR	NO DATA	NO DATA	
Phosphorous Trichloride (PICI)	CL3P (7719-12-2)	A	A to 120°	A to 100% to 200°	A	A	B/NR @ 70°	A to 100% to 150°	A	A	AB to 180°	NR	NO DATA	NR	A to 70°	A to 70°	A	NR	NO DATA	NO DATA	
Piranha (3:1 Mixture of Concentrated Sulfuric Acid & 30% Hydrogen Peroxide)	N/A	A	NR	AB	NR	A	A to 90% to 104°	A to 75% to 70° BC 96-98% @ 70-120° ** (OK Fluorinated/TEST)	A to 98% to 120°	A	NR	NR	NR	NR	A	NR	A	NR	A	NR	
Plating Solution, General	N/A	A to 70°	A to 140°	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A to 140°	A	A	A to 100°	NO DATA	NO DATA	NO DATA	A to 70°	A to 70°	A	A to 70°	A to 70°	NR	
Plating Solution, Cadmium	N/A	A to 90°, Cyanide A/NR @100°, Fluob.	A to 140°	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A	A	A	A to 90, Cyanide C @ 100°, Fluoborate	NO DATA	NO DATA	NO DATA	A to 140°	A to 70°	A	A to 140°	NO DATA	NR	
Plating Solution, Chrome	N/A	A to 130°, Fluoride NR @ 90°, Barrel NR @ 115°, Black	A to 70° NR @ 95°, Barrel	A to 70°	Generally OK (Etching Solution may affect, test)	A	AC to 70° C @ 95° (Barrel)	A	A	A	B/NR @ 70°	C/NR @ 70°	NO DATA	A to 70°	A to 140°	A to 70°	A	NR	NO DATA	NR	
Plating Solution, Copper	N/A	A to 120°	A to 70°, Barrel A to 120°, Copper A to 120°, Cyanide	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A	A	A	NR, Electroless A to 120°, Strike A to 70° Sulfate	NO DATA	NO DATA	NO DATA	A to 200°	A to 140°	A	A to 140°	NO DATA	NR	
Plating Solution, Nickel	N/A	A to 140°	A to 70° A, Cyanide C @ 70°, Sulfamate	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A	A	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	A to 140°	A	A to 140° NR @ 70°, Electroless	NO DATA	NR	
Plating Solution, Tin	N/A	A to 125°	A to 70° C 100-125°, Fluoborate	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A to 180°	A	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 140°	A to 104° B @ 140°	A	AB to 140°	NO DATA	NO DATA	
Plating Solution, Zinc	N/A	A to 70°, Alk-Cyanide A top 150°, Cyanide NR @ 140°, Chloride	A to 70°, Cyanide A to 70°, Fluoborate NR, Acid	A to 70°	Generally OK (Etching Solution may affect, test)	A	A	A to 150°	A	A	NO DATA	NO DATA	NO DATA	NO DATA	A to 140°	A to 70°	A	A to 140°	NO DATA	NO DATA	
Polyethylene Glycol (PEG, Carbowax)	C2H6O2 (71767-64-1)	A	A (Short Term) B (Long Term)	NO DATA	A	A	A to 140° AB to 180°	AB to 70°	A to 250°	A	A to 70° Sulfate	NO DATA	NO DATA	A to 70°	A to 212°	A to 176°	A	A to 70° C @ 70° (dynamic)	NO DATA	NO DATA	
Potassium Borate (Potassium Metaborate)	BKO2 (20786-60-1)	NO DATA	NO DATA	NO DATA	A	A	A to 180°	A to 150°	A	A	NO DATA	NO DATA	A to 70°	NO DATA	A to 212°	A to 100% @ 212°	A (Aqueous Sol to 70°)	AB 70-140° NR @ 176°	NO DATA	NO DATA	
Potassium Carbonate (Carbonic Acid) (Potash)	CK2O3 (584-08-7)	A to 90% to 212° AB@100% to 140°	A to 17% to 240° AB 20- 100% to boil	A to 100% to 200°	A at 60-100% to 70°	A to 100% to 500°	A to 225°	A to 160° AB at 180°	A to 100% to 275° AB to 100% at 285°	A to 100% to 500°	A at 60-100% to 180°	A to 70°	A to 200°	A at 5% to 70° NR at 70°	A to 212°	A to 176° AB to 200°	A aqueous sol'n to 70°	A to 200° A to 180°	A to 70°	A to 200° C @ 70° (dynamic)	
Potassium Chlorate (Chloric Acid) (Potassium Salt)	CLKO3 (3811-04-9)	B 30-60% 125-212° B to 60% @ 212° AB @ 100%	A	A	A	A	A to 100% to 180°	A to 100% to 160°	A	A	A to 10% to 70° AB to 100% to 180°	NR	A to 100% to 200°	A to 70°	A to 140° AB to 200°	A to 130° AB to 140-200°	A	A to 70° AC to 130°	A to 70°	AB to 125° C @ 70° (dynamic)	
Potassium Chloride (Salt Substitute)	CLK (7447-40-7)	A to 10% A 10-30% to 125° AB @ 100%	A to 32% to 180° AB 40-100% to 150°	A	A	A	A to 100% to 180°	A to 100% to 160°	A	A	A to 100% to 140° AB to 100% @ 180°	A to 100% to 70°	A to 100% to 200°	A to 100% to 120°	A to 212°	A to 176° AB to 212°	A	A to 176° B @ 212°	A to 70°	A to 100% to 200°	
Potassium Hydroxide (Caustic Potash)	KOH (1310-58-3)	A to 50% to 200° AB@100% to 185°	A to 100% to 70° A to 70% to 150°	A to 200° A to 50% to 268°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A A 70% to 185°	A to 100% to 160° AB to 100% at 180°	*A to 25% to 140° A to 10% to 280° A 60-100% to 212°	A	B to 100% to 180°	A to 30% to 70° AB to 100% to 70°	A to 100% to 200°	C at 1% at 70° NR at 1% at 125° NR at 5-100% at 70° A to 100% to 200°	AB to 70° AB to 70% to 140° A 5% to 150° A to 140°	A to 200° B 25% @ 212	A (Black 550) AB (White 571 & 592)	A to 5% to 150° AB to 150°	A to 70°	AB @ 1% to 70° C 10-100% 70-200° NR (Dynamic)	
Potassium Permanganate	KMN04 (7722-64-7)	A to 50% to 75° AB@100% to 200° B to 30% 75-212°	A to 25% to 70° AB to 100% to 100° A@100% to 130°	A to 200°	A to 75°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 70° A to 25% to 140° A to 10% to 180°	A to 100 to 160° A to 10% to 180° AB at 20% to 180°	A	A	A to 10% to 140° NR conc.-100% at 70°	B @ 70°	A to 200°	A to 100% to 200°	A to 200°	A	AC to 150°	A to 70°	A to 70° C @ 70° (Dynamic)		
Potassium Silicate (potassium hydroxy-oxido-oxosilane)	HKO3SI (1312-76-1)	NO DATA	AB	NO DATA	NO DATA	A	A to 70°	A to 70°	A to 275°	A	B @ 70°	NO DATA	NO DATA	NO DATA	A to 160°	A to 160°	A	A to 160°	A to 70°	A to 160°	
Potassium Sulfite (Sulfurous Acid)	K2SO3 (10117-38-1)	A @ 100% to 70° A @ 50% to 280°	AB to 100% to 100° A @ 100% to 70°	A to 70°	A	A	A to 100% to 140°	A	A to 212°	A	AB to 70°	NO DATA	A to 70°	NO DATA	A to 210°	A to 200°	A	A to 100% to 80° AB to 100% to 150%	NO DATA	A to 70°	
Propanol	C3H8O	A to 200°	A	A	A	A	A to 140°	A to 150°	A to 100% to 150°	A	A to 70°	NO DATA	AB to 185°	A to 125°	A to 212°	A to 200°	A	A	A to 120°	A to 200°	

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			Swelling		Loss of Tensile Strength															Description of Chemical Attack
			Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)														
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																				
CHEMICAL		SPRING Materials					COUPLING Materials							SEAL Materials						
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone
(Propyl Alcohol) (Rubbing Alcohol)	(67-63-0)																			
Propionic Acid (Propanoic Acid Nitrile)	C3H6O2 (79-09-4)	A	A	NO DATA	A to 212°	A	A 100% to 70°	AB to 70° C @ 122°	A 100% to 280°	A	NR	NR	B @ 70-122°	A to 20% to 70° NR 100% @ 70°	A @ 50% to 100° NR 100% @ 70°	A to 100% to 200°	A	AC Sat 70-200° NR 50% @ 70°	A to 70°	B @ 70° C @ 70°, dynamic
Propylene Glycol (PG-12)	C3H8O2 (57-55-6)	B@100% @ 70°	A to 30% A@80-90% A@60%	A to 70°	A	A to 500°	AB to 160°	A to 140° AB at 180°	A to 275° AB at 280°	A to 500°	A to 70°	A to 70°	B at 70-122°	BC at 70° C/NR at 122°	A to 140°	A to 70°	A to 70°	A to 250°	AB to 70°	A to 250° C @ 70° (Dynamic)
Propylene Glycol Monomethyl Ether Acetate (PGMEA)	C6H12O3 (108-65-6)	A	A	A	B	A	A to 140°	A	AB	A	A to 70° AB to 140°	A to 70°	NO DATA	NO DATA	NR	A 50% to 70°	A	NO DATA	AB to 70°	NO DATA
Propylene Glycol Monomethyl Ether (PGME, Dowtherm 209 / Dowanol PM)	C4H10O2 (107-98-2)	A	A	A	B	A	A to 140° AB to 150°	A	AB	A	A to 70 AB to 140°	A to 70°	NO DATA	NO DATA	NR	A 50% to 70°	A	NO DATA	AB to 70°	NO DATA
2 Propanone (Hexachloroacetone)	C3Cl6O (116-16-5)	NO DATA	NO DATA	A to 200°	A to 212°	A	A	C @ 70° NR @ 140°	A to 10% to 122° AB 50% @ 77°	A	B @ 100% @ 70° NR @ 140°	B 10% @ 70° NR 50 - 100%	A to 20% to 70° NR 100% @ 70°	NR	C 10% @ 70-104° NR 20-100% @ 70°	A to 200°	A	NR 50 - 100%	A to 70°	B/NR @ 70°
Propylene Oxide (Methyle Ethylene Oxide)	C3H6O (75-56-9)	A to 70°	A to 140°	NO DATA	A	A	A to 70° AB @ 125°	A to 122° AB @ 140°	NR @ 100% @ 70°	A	NO DATA	NO DATA	B @ 70 -122°	NR	NR	B to 120°	A	NR	A to 120°	NR
Pyridine (Azine)	C5H5N (110-86-1)	A to 100% to 100° A@100% to 140°	A to 100% to 212°	A to 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 75° AB 100% 120-180° NR 100% @ 120°	BC at 70° C at 140°	NR	A	AB to 70°	NO DATA	AB to 50% to 70° NR at 70°	NR at 70°	HIFLUOR A to 70° NR	B to 160°	A	NR at 70°	AC 70-120°	NR
Sodium Bicarbonate (Baking Soda)	CHNaO3 (144-55-8)	A to 100% to 150° AB to 20% to boiling	A to 100% to 150° A to 20% to 212°	A to 100% to 300°	A to 250°	A to 100% to 500°	A to 225°	A to 160° AB at 180°	A to 100% to 275° AB to 100% at 285°	A to 100% to 500°	A to 200°	A to 100% to 70°	A to 100% to 70°	A to 100% to 200°	A to 212°	A to 176° B at 212°	A to 70°	A to 140° AB to 200°	A to 70°	A to 70°
Sodium Bisulfate (Sodium Disulfate) (Sulfuric Acid Disodium Salt)	H2NAO4S (7757-82-6)	AB to 20% to 180° B to 140° C 25-100% 175-212°	A to 13% to 160° AB 20-100% to 150°	A to 200°	A to 70°	A	A to 180°	A to 150°	A	A	A to 5% to 70° AB to 180°	A to 70°	A to 200°	A to 70°	A to 212°	A to 176° AB to 200°	A	A to 70° AB to 200°	A to 70°	A to 200°
Sodium Bisulfite (Sodium Disulfite) (Sulfurous Acid Disodium Salt)	HNAO3S (7631-90-5)	A to 6% to 70° B 10-40% to 212°	A to 100° A to 20% to 180° C 30-50% 125-212°	A to 200°	A to 70°	A	A to 180°	A to 150°	A	A	NR 5-100% @ 70°	A to 70°	A to 70°	A to 70°	A to 212°	A to 176° B 100% @ 212°	A	A to 160° B 100% @ 212°	A to 70°	A to 200°
Sodium Carbonate (Soda Ash)	CNa2O3 (497-19-8)	A to 100% to 212°	A to 100% to 212°	A to 100% to 300°	A to 100% to 212°	A to 100% to 500°	A to 100% to 225°	A to 100% to 160° AB to 100% at 180°	A to 100% to 275° AB to 100% at 285°	A to 100% to 500°	A to 100% to 140° A to 20% to 180°	AB to 100% to 70°	A to 100% to 200°	A to 100% to 200°	A to 212°	A to 176° B at 212°	A to 70°	A to 100% to 160° AB to 100% to 200°	A to 70°	A to 200°
Sodium Chloride (Salt)	ClNa (7647-14-5)	A to 100% to 176°	A to 16% to 212° A 25 - 80% to 160° A@100% to 212°	A	A	A	A	A to 100% to 160°	A	A	A to 100% to 70° AB to 100% 150-180°	A to 100% to 70°	A to 100% to 200°	A to 100% to 120°	A to 100% to 212°	A to 100% to 176°	A to 70°	A to 160°	A to 100% to 120°	A to 70°
Sodium Chlorite (Sodium Salt)	ClNaO2 (7758-19-2)	NO DATA	NO DATA	AB	A	A	A to 100% to 70° A to 50% 100° AB to 100% @ 200°	A to 140°	A	A	NO DATA	NO DATA	A to 70°	NO DATA	A to 70°	A to 70°	A	NR	A to 70°	B @ 70° C @ 70° (Dynamic)
Sodium Citrate (Trisodium Citrate)	CSH5Na3O7 (8055-55-8)	A sat'd to 100° B to 50% @ 70°	A to 140° B to 40% @ 212°	NO DATA	A to 70°	A	A to 70°	A to 70°	A to 140°	A	A to 70°	NO DATA	A to 70°	NO DATA	C @ 70°	A to 70°	A	NR	NO DATA	B @ 70° C @ 70° (Dynamic)
Sodium Hydroxide (Caustic Soda)	NaOH (1310-73-2)	A to 100% to 70° A to 50% to 200° AB 50-80% to 170°	A to 20% AB 20-70% to 212° AB 70-100% to 125°	A to 100% to 70° A to 50% to 140° A to 20% to 200°	A to 100% to 70° A to 54% to 392°	A (PTFE Encapsulated 316 Stainless St.)	A to 125° A to 70% to 225°	A to 100% to 140° A to 70% to 160° AB to 100% at 180°	A to 50% to 70° A to 20% to 104° B 50% @ 100-120°	A	A to 60% to 180° AB at 60-80% to 180° BC at 80-100% at 70°	A to 25% to 70° AB to 100% to 70° B 10-50% @ 70-180°	A to 50% to 120° A to 20% to 200° AB to 50% to 250°	A to 20% to 120° A to 15% to 200° C at 25% at 70-120°	B to 70° B 80% @140°	A to 70° A to 50% to 176° B 20% @ 212°	A (Black 550) AB (White 571 & 592)	A to 20% to 212° A to 50% to 176°	A to 100% to 70°	A to 70° A @ 20% to 212° B 50% 70-212°
Sodium Hypochlorite (Bleach)	CLNaO (7681-52-9) (10022-70-5)	A to 50% to 115° A to 20% to 140° AB@100% to 200	Generally NR A to 6% to 160° A sat'd to 200°	BC 5% to 200°	AB to 100%	A (PTFE Encapsulated 316 Stainless St.)	A to 100% to 70° A to 5% to 120° C 12-13%>70°, NR @104°	A to 100% to 160° AB to 100% at 180°	A to 17% AB to 100%	A	NR at 10-100% at 70°	BC to 10% to 70° C @ 5% @ 70° NR @ 70°	A to 100% to 200° A to 17% to 300°	A to 10% to 70° AB to 100% to 70° C at 15% at 125-150°	AB to 100% to 130° BC 20% @ 158°	A to 14% to 122° AB 20-100% to 130	A	NR	A to 20% to 70°	A to 5% to 70° B 5-100% @ 70° C @ 70° (Dynamic)
Sodium Metasilicate (Silicic Acid)	Na2O3Si (68-34-0)	A to 100% to 212°	A	NO DATA	A	A	A to 180° B @ 212°	A	A	A	B @ 70°	NO DATA	A	NO DATA	A	A to 176° B @ 212°	A	A to 180°	A to 70°	AB to 70° C @ 70° (Dynamic)
Sodium Silicate (Water glass) (Silicic Acid Sodium Salt)	Na4O4Si (1344-09-8)	A to 140°	A to 212°	A	A	A	A to 180°	A to 150°	A	A	AB to 70°	NO DATA	A to 200°	NO DATA	A to 212°	A to 176°	A	A to 140°	A to 70°	A to 70°
Sodium Sulfide (Sodium Monosulfide)	Na2S (1313-82-2)	A to 25% to 70° A to 20% to 125° A @ 100% to 130°	AB 20-30% to 175° AB @ 100%	A	A	A	A to 100% to 180°	AB to 100% to 150°	A	A	A to 70°	A to 70°	A to 200°	A to 200°	A to 70°	A to 100% to 200°	A	A to 100% to 140°	A to 100% to 70°	A to 100% to 70°
Sodium Sulfite (Disodium Sulfite) (Sulfurous Acid)	Na2O3S (7757-83-7)	A 20-100% to 130° A to 5% to 100° B to 30% to 212°	A to 100% to 70° AB to 30% to 175°	A to 70°	A	A	A	A to 140°	A	A	A to 70° A to 10% to 150°	AB to 70°	A Solution to 70°	A/NR @ 70°	A to 100% to 140°	A to 100% to 140° AB to 100% to 200°	A	A to 100% to 70° AB to 100% to 200°	A to 70%	A to 100% to 70°
Sodium Tripolyphosphate	Na5O10P3 (7758-29-4)	NO DATA	A to 100% to 120° A 16-50% to 175°	NO DATA	A	A	A to 175°	A to 140°	A	A	NO DATA	NO DATA	A to 70°	NO DATA	AB to 70°	AB to 70°	A	A to 70°	NO DATA	B @ 70° C @ 70° (Dynamic)
Soybean Oil	No Formula	A	A	A	A	A	A	A	A	A	A	B @ 70°	NO DATA	A	A	NR	A	A	B @ 70°	A
STERIS® CIP 100 (Potassium Hydroxide & Tetrasodium EDTA)	Alkaline Cleaner KOH & C10H12N2Na4O8	A to 200°	A to 150°	A	A to 212°	A	A	NO DATA	A to 140°	A	NO DATA	A to 30% to 70° AB to 100% to 70°	NO DATA	NO DATA	AB to 140°	A to 200°	A (Black 550) AB (White 571 & 592)	NO DATA	A	NO DATA
STERIS® CIP 200 (Phosphoric Acid & Citric Acid)	Acid Cleaner H3PO4 C6H8O7	A to 200°	A to 150°	A to 220°	A	A	A	A	A	A	C	B	A	B	A	A to 176°	A	AB to 104°	A to 70°	NR
Sulfamic Acid (Aminosulfonic Acid)	H3NO3S (7773-06-0)	B @ 10%	NR @ 10% @ 70° A @ 20% to 70° A @ 100% to 70°	NO DATA	NR	A	A to 180°	A to 150°	A to 200°	A	NO DATA	NO DATA	NO DATA	NO DATA	B @ 70° (Static) NR (Dynamic) HIFLUOR A to 70°	A to 70°	A	NR	NO DATA	B @ 70° C @ 70° (Dynamic)
Sulfonic Acid (Sulfurous Acid, Hydrogen Sulfite)	HO3S (15181-46-1)	B	A to 3% to 127° A to 10% to 70° B 10-100% @ 70°	A to 200°	A to 212°	A	AB to 180°	NO DATA	A to 212	A	C @ 10% @ 70°	A to 10% B @ 100% @ 70°	A to 200°	A to 70°	NR	A to 75% to 70° B @ 100% 70-212°	A	A to 5% to 70° C 10-85% @ 70°	A to 70°	B @ 70° C @ 70° (Dynamic)
Sulfuric Acid (Air-free) (Better when aerated)	H2SO4 (7664-93-9)	A to 60% to 70° A 90-100% to 100° (A to 100% to 140°)	A to 5% to 175° NR 10-100% @ 70° B 100% to 125°	A 10-75% to 70° AB to 98% to 220°	A to 40% to 100° NR > 40%	A (Encaps. 316ss)	* A to 90% to 104° * AB 93-95% @ 70° * BC 98% @ 70-122°	A to 75% to 70° AB 80 -90% to 122° AC 90-95% @ 70-122°	A to 90% to 212° A to 96% to 175° A to 98% to 120°	A	A to 3% to 70° NR at 10-100% at 70° NR at 30% at 70°	A to 25% to 70° B 30% 70-100° NR 80-100% @ 70°	A to 65% to 200° A to 35% to 300° AB at 85% to 210°	A to 50% to 70° A to 10% to 180° AB 20-30% at 122-200°	A to 100% to 158° A to 70% to 176° A to 50% to 212°	A to 90% to 70° A to 80% to 140° A 10% to 176°	A	A at 60% to 140° A at 50% to 70° A to 30% to 140°	A to 95% to 70° BC 95-98% @ 70° NR 95-100% @ 70°	NR



CHEMICAL COMPATIBILITY TABLE

For ChemQuik[®], DrumQuik[®], DrumQuik PRO & Other Common Colder Series Coupling Materials

(Updated 08/10/2011)

		INTERPRETATION OF TEST DATA (In 30 days to 1 year of exposure)										WARNING: The compatibility data in this guide was assembled from 3 main sources, a) the Chemical Resistance Guides published by COMPASS PUBLICATIONS ©, b) the Chemical Resistance guide published by VICTREX, the manufacturer of PEEK™ and c) the chemical manufacturers themselves. The table is to be used as a general guide only. Colder Products Company is not responsible for the accuracy of this data and assumes no obligation of liability in connection with its use. Therefore, CPC insists that all customers test and evaluate the suitability for use of CPC couplings in their particular application before using the couplings!											
				Swelling		Loss of Tensile Strength		Description of Chemical Attack															
				Linear (Plastics)	Volumetric (Elastomers)	(Plastics)	(Elastomers)																
A	< 10%	<= 15%	< 15%	<=15%	Excellent, little or no swelling, softening or surface deterioration Good chemical resistance, minor swelling, softening or deterioration Limited chemical resistance, moderate attack, conditional service Severe attack, not recommended for use																		
B	< 15%	<= 30%	< 30%	<= 30%																			
C	< 20%	<= 50%	< 50%	<= 60%																			
NR	> 20%	> 50%	> 50%	> 60%																			
NOTE: All temperatures are in degrees Fahrenheit. Conversion: °C = (°F - 32)/1.8																							
CHEMICAL		SPRING Materials					COUPLING Materials								SEAL Materials								
Name	Formula (CAS #)	Hastelloy C (276)	316 SS	PPS	PEEK™	PTFE Encapsulated 316SS (TESS)	Polypropylene	HDPE	PVDF	PTFE/PFA	Acetal/POM (Celcon)	ABS	Polysulfone	Polycarbonate	FKM (Viton®)	EPDM	FFKM (Chemraz® / Simriz® / Kalrez®)	Buna	TPO (Santoprene)	Silicone			
Tetrachloroethylene (PERC/PERK)	C2CH4 (127-18-4)	A	A	AB @ 100%	A	A	NR 100% @ 70° B Low Conc. @ 70°	NR 100% @ 70° B 10% @ 70° ** (OK Fluorinated/TEST)	A to 100% to 176°	A	A to 70° AB 70°-140°	NR	NR	NR	A	NR	A	NR @ 70°	NR	NR			
Tetra Ethyl Ortho Silicate (TEOS, tetraethoxysilane)	Si(OC2H5)4 (78-10-4) (9044-80-8)	A to 212°	A to 212°	NO DATA	A	A to 212°	A to 100°	A to 100°	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	A to 125°	A to 125°	NR	NO DATA	NO DATA			
Tetrahydrofuran (Tetramethylene Oxide) (THF)	C4H8O (109-99-9)	A to 200°	A to 200°	A 100% to 140° C 100% @ 200°	A to 70°	A (PTFE Encapsulated 316 Stainless St.)	BC @ 70° C/NR @ 100-120° NR @ 140°	NR at 70° ** (OK Fluorinated/TEST)	C 10-100% @ 70° NR @ 120°	A	A to 70°	NR	NR at 200°	NR at 70°	NR	NR	A	NR at 70°	B @ 70°	NR			
Tetra Methyl Ammonium Hydroxide (TMAH)	C4H13NO (75-59-2) (93615-68-0)	NO DATA	NO DATA	NO DATA	A	A to 100% to 500°	A to 150°	AB	*** A/NR	A to 100% to 500°	NO DATA	NO DATA	NO DATA	NO DATA	HIFLUOR A to 70° NR	A to 70°	A	NR	NO DATA	B @ 70° C @ 70° (Dynamic)			
Thionyl Chloride (Sulfinyl Chloride) (Sulfurous Chloride)	CL2OS (7719-09-7)	NO DATA	NR	NO DATA	A to 70°	A	B/NR 10 - 100% @ 70°	NR	NR	A	AC at 70°	NO DATA	NR at 70°	NR at 70°	HIFLUOR A to 70° AB to 70°	NR	A	NR at 70°	B @ 70°	NR			
Toluene (Toluol)	C7H8 (108-88-3)	A to 212°	A @ 100% to 212°	A to 100°	A to 75°	A (PTFE Encapsulated 316 Stainless St.)	NR	AB to 70° C/NR at 70° NR at 140°	A to 140° AB @ 176° BC 176-212°	A	A to 70° AB at 140° C at 180°	NR	NR at 70°	NR at 70°	A to 100° BC to 200°	NR	A	NR 30-100% at 70°	NR	NR			
Trichloroacetic Acid (TCA)	C2HCL302 (76-03-9)	A @ 100% to boiling AB to 100% to boil.	NR	A to 200°	A to 68° (Fluoroware)	A (PTFE Encapsulated 316 Stainless St.)	A to 140° AB @ 150°	A to 10% to 140° AC at 70-150° ** (OK Fluorinated/TEST)	A to 75° A to 65% to 212° AB 104-125°	A	NR at 70°	NO DATA	B at 70-122°	A to 20% to 70° C/NR 100% at 70° NR at 100% at 122°	NR	B at 70°	A	NR at 70°	BC @ 70°	NR			
Trichloroethylene (Ethylene Trichloride) (Triad)	C2HCL3 (79-01-6)	B @ 90% to 212° A @ 100% to 212°	A @ 90% to 212° A @ 100 to 140°	AC 70-100° NR @ 200°	A to 212°	A (PTFE Encapsulated 316 Stainless St.)	NR	B at 70° C at 122° ** (OK Fluorinated/TEST)	A to 189° (blackens)	A	AB at 70-180°	NR	NR at 70°	NR at 70°	HIFLUOR A to 70° A to 200°	B	A	NR at 70°	NR	NR			
Triethylamine (Triethyle Amine)	C6H15N (121-44-8)	NO DATA	A	NO DATA	A to 130° NR > 150°	A	NR	AB to 70° C @ 120° ** (OK Fluorinated/TEST)	A to 70° (Turns Brown)	A	A to 70°	NO DATA	NO DATA	NO DATA	NR	A	A	A to 140°	B @ 70°	NR			
Triethylene Glycol (TEG, Trigen, Triglycol)	C6H14O4 (676-18-6)	A	A to 200°	A	NO DATA	A	A to 125°	A to 140°	A to 125° C @ 170°	A	NO DATA	NO DATA	A to 120°	A to 70° B @ 125°	HIFLUOR A to 70° A to 70°	A to 70°	A	A to 70°	NO DATA	B @ 70°			
Triethanolamine (TEA)	C6H15NO3 (102-71-6)	A 100 to 200°	AB to 100% to 75° A 1% & 100% to 200°	A 100% to 200°	A to 70°	A	AB @ 100% 70-185°	AB to 70% NR @ 120° ** (OK Fluorinated/TEST)	AB to 100% to 125°	A	NR	AB to 70°	NR	NO DATA	NR	A to 160°	A	B to 100°	A to 70°	NR			
Trifluoroacetic Acid (Perfluoric acid, Perfluoroacetic acid) (TFA)	C2HF3O2 76-05-1	B	A	NO DATA	NO DATA	A	C @ 70°	B	A to 125°	A	NO DATA	NO DATA	C/NR	NR	HIFLUOR A to 70° C @ 70°	A	B	C @ 70°	NO DATA	B @ 70° C @ 70° (Dynamic)			
Trimethylbenzene (Pseudocumene)	C9H12 (95-63-6)	NO DATA	NO DATA	NO DATA	A	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	A to 70°	NR	A	B @ 70° C @ 70° (dynamic)	NO DATA	NO DATA			
Urea (AdBlue, AUS32, Aqueous Urea Sol. 32.5%) (DEF, Diesel Exhaust Fluid, BlueTec)	CH4N2O 57-13-6	A to 130° AB to 200°	A to 200°	A to 200°	A to 212°	A	A to 100% to 180°	A to 100% to 150°	A to 100% to 250°	A	A to 100% to 70°	B @ 70°	C @ 70°	NR	A to 70° AB to 200°	A to 70° AB to 200°	A	AB to 150°	NO DATA	AB to 70°			
Xylene (Xylol)	C8H10 (1330-20-7)	A	A 75-100% A @ 50% to 220°	A to 200°	A to 70°	A (PTFE Encapsulated	C @ 70-140° NR @ 150°	NR at 70°	A to 175° A to 100% to 175°	A	A to 140° AB at 180°	NR	NR at 100% at 70°	NR at 70°	A to 140°	NR	A	NR at 70°	NO DATA	NR @ 70°			

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NOTES:
* PVDF may discolor after prolonged exposure in Potassium Hydroxide.
* Polypropylene may discolor after prolonged exposure in Sulfuric Acid.
** Fluorination of HDPE has been shown to dramatically improve the chemical resistance of HDPE material with certain chemicals. Samples are available to allow customers to evaluate in their specific application. Contact CPC Inside Sales for assistance.
HIFLUOR® Fluorinated FKM will often be compatible in applications where standard FKM is "NR". It bridges the price gap between FKM & FFKM perfluoroelastomers and is available only by special order (minimums may apply). Contact CPC Inside Sales for assistance.

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