

# FLOWLON FLUID COMPATABILITY TABLE:

effect of 166 hour immersion (ASTM D-471) on properties of 87 shore A  
FLOWLON T.P.E. SHEET. <sup>a</sup>

	Fluids	Temp., °C	Ult. Elongation, % Retention	Ult. Tensile, % Retention	100% Modulus, % Retention	Hardness Change, Shore A Units	Weight Change, %
Acids and Alkalis	98% Sulfuric Acid	23	77	82	108	-1	2.1
	10% Hydrochloric Acid	23	88	87	85	6	0.3
	50% Sodium Hydroxide	23	101	107	104	-4	-0.1
	10% Potassium Hydroxide	23	101	101	106	-1	0.1
Aqueous Solutions	Water	100	84	94	106	4	2.9
	10% Zinc Chloride	23	89	87	83	5	0.0
	Sea Water	23	98	107	99	4	0.3
	15% Sodium Chloride	23	93	90	94	5	0.7
	18% Calcium Chloride/ 14% Calcium Bromide	150	71	86	110	-2	-0.1
	2.5% Detergent (Tide)	23	103	103	103	0	-0.1
Organic Solvents	Acetic Acid	23	103	102	102	-2	3.2
	Acrylonitrile	23	102	104	110	-4	0.9
	Aniline	23	99	94	99	-2	1.5
	Bromobenzene	23	94	91	88	-3	41.9
	<i>n</i> -Butyl Acetate	23	95	92	80	5	0.3
	Cyclohexane	23	63	58	62	-6	45.3
	Diethyl Ether	23	98	97	95	-7	-1.8
	Dimethylformamide	23	96	105	100	6	0.0
	Dioctyl Phthalate	23	101	97	103	-1	-0.2
	1,4-Dioxane	23	98	94	95	-3	1.1
	95% Ethanol	23	106	98	99	0	-1.7
	Glycerol	23	102	101	103	-2	0.2
	<i>n</i> -Hexane	23	90	92	94	-10	5.7
	Methylethylketone	23	95	94	79	6	-4.8
	Nitrobenzene	23	100	98	102	-2	-1.5
	Piperidine	23	87	85	93	-9	12.8
1-Propanol	23	93	98	100	6	-4.3	
Pyridine	23	98	105	94	6	-1.9	
Trichloroethylene	23	107	105	85	-13	97.2	
Turpentine	23	80	75	85	-10	34.8	
Xylene	23	84	85	90	-11	24.9	
Petroleum Oils and Fuels	ASTM #1 Oil	100	88	91	99	1	13.5
		125	70	78	91	-1	21.6
	ASTM #2 Oil	100	82	86	93	-2	27.1
		125	65	79	93	-6	40.1
	ASTM #3 Oil	100	72	75	80	-6	41.6
		125	60	71	83	-13	59.8
	Reference Fuel A (Isooctane)	23	86	85	82	-1	13.2
	Reference Fuel B (Isooctane/Toluene, 70/30)	23	82	84	81	-7	24.5
	Reference Fuel C (Isooctane/Toluene, 50/50)	23	67	68	75	-4	29.4
	Automotive Fluids	Automatic Transmission Fluid	125	63	77	82	-11
Hydraulic Brake Fluid		23	95	102	95	5	-1.8
		100	89	94	97	6	-12.8
Lithium Grease		23	93	98	92	5	3.5
		100	88	88	92	-7	18.8
Power Steering Fluid		125	54	59	68	-12	52.2
Antifreeze, 50/50 Ethylene Glycol (Prestone®)/water		125	84	99	96	2	3.1
Industrial Fluids	Pydraul® 312	125	79	85	90	0	17.6
	Skydrol® 500 B4	125	93	104	101	4	-4.2
	Sunvis® 706 Fluid	125	67	77	84	-8	39.9
	Ucon® CC732	125	91	99	96	2	5.3
	Ucon® 50HB5100	125	95	114	116	8	-17.6
	Freon® 11	5	92	88	88	-9	32.3

<sup>a</sup>All solution concentrations by weight.