



WILLIAM JOHNSTON & COMPANY LIMITED

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POLYURETHANE

Hardness Guide		
Hardness	Shore Scale	Description
35	A	Rubber band
50	A	Inner tubes
60	A	PVC hose
70	A	Car tyre treads
95	A	Fork lift truck tyres
60	D	Polyethylene rigid plastic
80	D	Nylon rigid plastic



KEY:

A = No or Little Effect B = Moderate Effect C = Probably Unsatisfactory D = Unsatisfactory

FLUID	RATING	FLUID	RATING
ACETIC ACID, 30%	C	ACETONE	D
AMMONIUM HYDROXIDE	A	AMMONIUM NITRATE	D
ANIMAL FATS	A	ASPHALT	B
ASTM REF. FUEL NO. 1 (BELOW 158oF)	A	ASTM OIL NO. 3 (BELOW 158oF)	B
ASTM REF. FUEL A	A	ASTM REF. FUEL B	B
ASTM REF. FUEL C	C	BARIUM CHLORIDE	A
BARIUM SULFATE	A	BARIUM SULFIDE	A
BORIC ACID	A	BUTANE	A
BUTTER	A	BUNKER OIL	B
CALCIUM CHLORIDE	A	CALCIUM HYDROXIDE	A
CALCIUM NITRATE	A	CARBON DIOXIDE	A
CARBON MONOXIDE	A	CHLORINE WET, DRY, OR GAS	D
CITRIC ACID	A	COCONUT OIL	A
COD LIVER OIL	A	COPPER CHLORIDE	A
COPPER CYANIDE	A	COPPER SULFATE	A
CORN OIL	A	COTTON SEED OIL	A
CYCLO HEXANE	B	DIESEL OIL	B
DIETHYL ETHER	A	DOWTHERM OIL	B
ETHYL ALCOHOL	B	ETHYL CELLULOSE	B
ETHYL CHLORIDE	B	ETHYL ETHER	B
ETHYLENE GLYCOL	B	GASOLINE (WITH ALCOHOL)	D
GLUCOSE	A	GLYCERINE	A
GLYCOLS	B	HYDRAULIC OIL (PETROLEUM BASED)	A
HYDRAULIC FLUIDS (SYNTHETIC)	D	HYDROGEN GAS	A
ISOOCTANE	B	KEROSENE	B
LARD	A	LINSEED OIL	B
LIQUIFIED PETROLEUM GAS	A	LYE	A,B
MAGNESIUM CHLORIDE	A	METHANE	B
METHYL ALCOHOL	D	METHYLENE CHLORIDE	D
MINERAL OIL	A	NATURAL GAS	B
NITRIC ACID - CONC.	D	NITRIC ACID - DILUTED	C
NITROGEN	A	OLEUM SPIRITS	B
OLIVE OIL	A	OXYGEN - 200oF	A
PEANUT OIL	A	PETROLEUM BELOW 160oF	A
PETROLEUM BELOW 250oF	B	PETROLEUM ABOVE 250oF	D
PHOSPHORIC ACID 20%	A	PHOSPHORIC ACID 45%	A
POTASSIUM CHLORIDE	A	POTASSIUM HYDROXIDE	A
POTASSIUM NITRATE	A	POTASSIUM SULFATE	A
PROPANE	A	RADIATION	A
SEWAGE	A	SILICATE ESTERS	A
SILICONE GREASES	A	SILICONE OILS	A
SOAP SOLUTIONS	A	SODIUM CHLORIDE	A
SODIUM HYDROXIDE	A	SODIUM PEROXIDE	A
SODIUM PHOSPHATE	A	SODIUM SULFATE	A

SOYBEAN OIL	B	STEARIC ACID	A
SULFURIC ACID - DILUTED	B	SULFURIC ACID - CONC.	D
TANNIC ACID	A	TOLUENE	C
TRANSMISSION FLUID TYPE A	A	TUNG OIL	B
WATER, FRESH	A	WATER, SALT	A
WHISKEY, WINES	A		

FLUID ASTM D-471 (158oF/70oC)	RATING	FLUID ASTM D-471 (158oF/70oC)	RATING
NUMBER 1 OIL	A	NUMBER 2 OIL	B
NUMBER 3 OIL	B		

SPECIFICATION FLUID	RATING	SPECIFICATION FLUID	RATING
MIL-H-13862	B	MIL-H-13866A	B
MIL-H-13910B	C	MIL-H-13919A	B
MIL-H-15017	A	MIL-H-15018B	A
MIL-H-15719A	D	MIL-H-15019C	A
MIL-H-16958A	B	MIL-H-17331D	A
MIL-H-17353A	B	MIL-H-18486A	A
MIL-H-19701	C	MIL-H-21260	A
MIL-H-22396	A	MIL-H-23699A	C
MIL-H-25336B	C	MIL-H-26087A	A
MIL-H-27694A	A	MIL-H-3150A	A

