



**WILLIAM JOHNSTON**  
**& COMPANY LIMITED**

9 Spiersbridge Terrace, Thornliebank Industrial Estate, Thornliebank, Glasgow. G46 8JH  
 Tel 0141 620 1666, Fax 0141 620 1888

**FLEXOID -OIL TAN PAPER – SPECIFICATION SHEET**

A cellulose fibre base paper impregnated with a plasticised chemical treatment able to resist oil, petrol, air, water, alcohol, grease & most solvents. Used in the automotive, truck, marine, aero and agricultural industries, it is suitable for cold applications or environments up to **120 degrees C** for engine, gearbox, axle, pump, pipe and tank flange joints. Ideal for oil and fuel resistance. Suitable for **180 degrees C** for short periods

**FLEXOID OTP PRODUCT SPECIFICATION SHEET**

**Specification**

Method

Density, g/cc(lb/cu.ft)	0.87 (54) (min.)	ASTM F1315
Compressibility. % (at 34.5MPa)	28 - 42	ASTM F 36
Recovery, %	20 (min.)	ASTM F 36
Tensile Strength, AMD, MPa(psi)	8.62 (1250) (mm.)	ASTM F 152
Fluid Resistance, IRM903 Oil		ASTM F 146
Change in Tensile Strength, %	30 (max.)	
Change in Thickness, %	7 (max.)	
Change in Compressibility, %	30 - 45	
Fluid Resistance, Fuel B		ASTM F146
Change in Thickness, %	7 (max.)	
Change In Weight, %	25 - 50	
Binder Type	Nitrile Butadiene	

PROPERTY	TEST METHOD	UNIT	VALUE
Moisture Content	15 min @ 100°C	%	8 TO 14
Thickness	ASTM F104	MM	+/- 10%
Compression	ASTM F36	%	25-40
Recovery	ASTM F36	%	40 min
Tensile Strength	ASTM F152	Mn/m2	13.79
IRM 903 Oil Weight Increase	ASTM F146	%	15 max
IRM 903 Oil Thickness Increase	ASTM F146	%	5 max
Fuel B Weight Increase	ASTM F146	%	15 max
Fuel B Thickness Increase	ASTM F146	%	5 max
Water Weight Increase	ASTM F146	%	90 max
Water Thickness Increase	ASTM F146	%	30 max

#### Fluid Resistance Chart 1

Key: 1 - Good Resistance | 2 - Medium resistance | 3 - Not Resistant

Acetone	2	Dibutyl Pathalate	1	Linseed Oil	1
Acids Inorganic	3	Ether	2	Lubricating Oil	1
Alcohols Methyl/Ethyl/Amyl	1	Ethyl Acetate	1	Methyl Ethyl Ketone	1
Alkalis	3	Ethylene Glycol	1	Nitrobenzene	1
Ammonia	3	Formaldehyde	1	Phenol	1
Aniline	1	Freon 12 and 22		Propane	1
Benzene	1	Fuel Oil	1	Propylene Glycol	1
Butane	1	Gasoline	1	Sodium Silicate	1
Butyl Acetate	1	Glycenne	1	Steam	3
Carbolic Acid	1	Greases	1	Toluol	1
Carbon Dioxide	1	Hydrogen	1	Tnchloroethylene	1
Carbon Tetrachloride	1	Hydrogen Peroxide		Vegetable Oils	1
Chlorinated Solvents	1	Hydrogen Sulphide	1	Water/Sea Water	2
Cresol	2	Inks	1	White Spint	1
Detergents	1	Kerosene	1	Xylol	1

#### Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.