



**WILLIAM JOHNSTON  
& COMPANY LIMITED**

Glasgow Tel: +44 (0) 141 620 1666 | Inverness Tel: +44 (0) 1463 238 673  
[sales@williamjohnston.co.uk](mailto:sales@williamjohnston.co.uk) | [www.williamjohnston.co.uk](http://www.williamjohnston.co.uk)



**Red Silicone FDA and EU1935 Approved 60° shore WJ14004**

**FDA 21 CFR No: 177 – 2600 – EU1935/2004 regulations and USP Class V1 Compliant**

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	ASTM D297	1.20	DIN 53508	1.20
HARDNESS	ASTM D2240	60 ± 5 SH A	DIN 53505	60 ± 5 SH A
TENSILE STRENGTH (MIN)	ASTM D412	712 PSI	DIN 53504	60 KG/CM <sup>2</sup>
ELONGATION AT BREAK (MIN)	ASTM D412	250%	DIN 53504	250%
COMPRESSION SET (70° C/24 HRS/25% SET) (MAX)	ASTM D395 METHOD B	40%	DIN 53517	40%
TEAR RESISTANCE (ANGULAR) MIN	ASTM D624	112 LBS/INCH	DIN 53515	20 KG/CM
POLYMER CONTENT:		100		100
CHANGE IN PROPERTIES				
HEAT AGEING (72 HRS. AT 100 °C)	ASTM D573			
--- HARDNESS (PTS)		+3 (MAX)		+3 (MAX)
--- TENSILE STRENGTH (%)		+ 5 / - 5		+ 5 / - 5
--- ELONGATION AT BREAK (%)		+ 5 / - 5		+ 5 / - 5
VOLUME SWELL: AT 70° C FOR 72 HRS/IN	ASTM D 471			
ASTM OIL NO.1		+ 5%		+ 5%
ASTN OIL NO.2		+ 7%		+ 7%
ASTM OIL NO.3		+ 25%		+ 25%
CHEMICAL RESISTANCE				
--- OZONE	ASTM D 1149	EXCELLENT		EXCELLENT
--- DILUTE ACIDS AND BASES		EXCELLENT		EXCELLENT
--- CONCENTRATED ACIDS AND BASES		EXCELLENT		EXCELLENT
--- OILS		GOOD		GOOD
---SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-90 ° TO + 200° C		-90 ° TO + 200° C
COLOUR		RED		RED

SR. NO.	NET CHLOROFORM SOLUBLE EXTRACTIVES USING	RESULT	UNIT	LIMITS AS PER STANDARD	TEST METHOD
Total Extractives at Reflux Temperatures for 7 hrs. Using					
1	Distilled Water	2.8	mg/inch <sup>2</sup>	20.0	As per USFDA 21.CFR.176.2600
2	n-Hexane	22.4		175.0	
Total Extractives at Reflux Temperatures for 2 hrs. Using					
3	Distilled water	0.8	mg/inch <sup>2</sup>	1.0	
4	n-Hexane	0.8		4.0	

Note: Detection Limit for the method is 0.5 mg/inch<sup>2</sup>.

**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.