



## 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)

### Blue Metal Detectable Neoprene WJ168

PROPERTIES	TEST METHOD	VALUES FPS UNITS	TEST METHOD	VALUES METRIC UNITS
SPECIFIC GRAVITY	DIN 53508	1.50 ± 0.05	ASTM D297	1.50 ± 0.05
HARDNESS	DIN 53505	65 ± 5 SH A	ASTM D2240	65 ± 5 SH A
TENSILE STRENGTH (MIN)	DIN 53504	1990PSI	ASTM D412	140 KG/CM2
ELONGATION AT BREAK (MIN)	DIN 53504	600%	ASTM D412	600%
COMPRESSION SET (70°C/24 HRS/25% SET) (MAX)	DIN 53517	50%	ASTM D395 METHOD B	50%
POLYMER CONTENT (%)		100		100
TEAR RESISTANCE (ANGULAR) MIN	DIN 53515	170 LBS/INCH	ASTM D624	30 KG/CM
CHANGE IN PROPERTIES AFTER HEAT AGEING (72 HRS. AT 70 °C)			ASTM D573	
--- HARDNESS (PTS)		+ 5 (MAX)		+ 5 (MAX)
--- TENSILE STRENGTH (%)		+ 10 / - 25		+ 10 / - 25
--- ELONGATION AT BREAK (%)		+ 10 / - 30		+ 10 / - 30
VOLUME SWELL : AT 70°C FOR 72 HRS/IN			ASTM D 471	
IRM OIL NO.1		+18%		+18%
IRM OIL NO.2		+23%		+23%
IRM OIL NO.3		+60%		+60%
POLYMER CONTENT (NEOPRENE)		100%		100%
CHEMICAL RESISTANCE				
--- OZONE		GOOD	ASTM D 1149	GOOD
--- DILUTE ACIDS AND BASES		GOOD		GOOD
--- CONCENTRATED ACIDS AND BASES		FAIR		FAIR
--- OILS		GOOD		GOOD
--- SOLVENTS		FAIR		FAIR
TEMPERATURE RANGE		-25° TO + 120° C		-25° TO + 120° C
COLOUR		BLUE		

## Extraction Data Test Results

Test Name: Determination of Amount of Extractives Method : With reference to US FDA 21 CFR 177.2600

For use in contact with aqueous food:

Extractants	Test Condition	Result (MG/INCH <sup>2</sup> )	Reporting Limit MG/INCH <sup>2</sup>	Permissible Limit MG/INCH <sup>2</sup>
Distilled Water	Reflux Temperature for 7 Hours	<0.1	0.1	20
	Succeeding 2 hours of extraction	<0.1	0.1	1
Comment	--	PASS	--	--

For use in contact with fatty foods

Extractants	Test Condition	Result (MG/INCH <sup>2</sup> )	Reporting Limit MG/INCH <sup>2</sup>	Permissible Limit MG/INCH <sup>2</sup>
n-Hexane	Reflux Temperature for 7 Hours	<0.1	0.1	175
	Succeeding 2 hours of extraction	<0.1	0.1	4
Comment	--	PASS	--	--

Note MG/INCH<sup>2</sup> = Milligram per square inch

### 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.