



## WILLIAM JOHNSTON & COMPANY LIMITED

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### High Acid Resistant EPDM Rubber to ICI M228 – 80° shore WJ1458

| PROPERTIES                                  | TEST METHOD        | VALUES FPS UNITS | TEST METHOD | VALUES METRIC UNITS |
|---|--------------------|------------------|-------------|---------------------|
| SPECIFIC GRAVITY                            | ASTM D297          | 1.38 ± 0.05      | DIN 53508   | 1.38 ± 0.05         |
| HARDNESS                                    | ASTM D2240         | 80 ± 5 SH A      | DIN 53505   | 80 ± 5 SH A         |
| TENSILE STRENGTH (MIN)                      | ASTM D412          | 1015 PSI         | DIN 53504   | 70 KG/CM2           |
| ELONGATION AT BREAK (MIN)                   | ASTM D412          | 250%             | DIN 53504   | 250%                |
| COMPRESSION SET (70°C/24 HRS/25% SET) (MAX) | ASTM D395 METHOD B | 35%              | DIN 53517   | 35%                 |
| TEAR RESISTANCE (ANGULAR) MIN               | ASTM D624          | 110 LBS/INCH     | DIN 53515   | 20 KG/CM            |
| CHANGE IN PROPERTIES                        |                    |                  |             |                     |
| HEAT AGEING (72 HRS. AT 70°C )              | ASTM D573          |                  |             |                     |
| --- HARDNESS (PTS)                          |                    | + 5 (MAX)        |             | + 5 (MAX)           |
| --- TENSILE STRENGTH (%)                    |                    | + 10 / - 10      |             | + 10 / - 10         |
| --- ELONGATION AT BREAK (%)                 |                    | + 10 / - 10      |             | + 10 / - 10         |
| VOLUME SWELL: AT 70°C FOR 72 HRS/IN         | ASTM D 471         |                  |             |                     |
| ASTM OIL NO.1                               |                    | NOT RECOMMENDED  |             | NOT RECOMMENDED     |
| ASTM OIL NO.2                               |                    | NOT RECOMMENDED  |             | NOT RECOMMENDED     |
| ASTM OIL NO.3                               |                    | NOT RECOMMENDED  |             | NOT RECOMMENDED     |
| POLYMER CONTENT (EPDM)                      |                    | 100%             |             | 100%                |
| CARBON CONTENT                              |                    | 30%              |             | 30%                 |
| CHEMICAL RESISTANCE                         |                    |                  |             |                     |
| --- OZONE                                   | ASTM D 1149        | EXCELLENT        |             | EXCELLENT           |
| --- DILUTE ACIDS AND BASES                  |                    | EXCELLENT        |             | EXCELLENT           |
| --- CONCENTRATED ACIDS AND BASES            |                    | EXCELLENT        |             | EXCELLENT           |
| --- OILS                                    |                    | NOT RECOMMENDED  |             | NOT RECOMMENDED     |
| --- SOLVENTS                                |                    | NOT RECOMMENDED  |             | NOT RECOMMENDED     |
| TEMPERATURE RANGE                           |                    | -30° TO + 130°C  |             | -30° TO + 130°C     |
| COLOUR                                      |                    | BLACK            |             |                     |

#### 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.

