



## **WILLIAM JOHNSTON & COMPANY LIMITED**

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### Black Diamond Drum Lagging – Mini Diamond WJ218

| PROPERTIES                                   | TEST METHOD        | VALUES FPS UNITS                                                   | TEST METHOD | VALUES METRIC UNITS |
|----------------------------------------------|--------------------|--------------------------------------------------------------------|-------------|---------------------|
| SPECIFIC GRAVITY                             | ASTM D297          | 1.17                                                               | DIN 53508   | 1.17                |
| HARDNESS                                     | ASTM D2240         | 65 ± 5 SH A                                                        | DIN 53505   | 65 ± 5 SH A         |
| TENSILE STRENGTH (MIN)                       | ASTM D412          | 1638 PSI                                                           | DIN 53504   | 115 KG/CM2          |
| ELONGATION AT BREAK (MIN)                    | ASTM D412          | 450%                                                               | DIN 53504   | 450%                |
| ABRASION RESISTANCE (MAX)                    | ASTM D5963         | 120 MM3                                                            | DIN 53516   | 120 MM3             |
| COMPRESSION SET (70 °C/24 HRS/25% SET) (MAX) | ASTM D395 METHOD B | 30%                                                                | DIN 53517   | 30%                 |
| TEAR RESISTANCE (ANGULAR) MIN                | ASTM D624          | 168 LBS/INCH                                                       | DIN 53515   | 30 KG/CM            |
| CHANGE IN PROPERTIES                         |                    |                                                                    |             |                     |
| 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 / - 25                                                        |             | + 10 / - 25         |
| 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     |
| CHEMICAL RESISTANCE                          |                    |                                                                    |             |                     |
| --- OZONE                                    | ASTM D 1149        | FAIR                                                               |             | FAIR                |
| --- DILUTE ACIDS AND BASES                   |                    | GOOD                                                               |             | GOOD                |
| --- CONCENTRATED ACIDS AND BASES             |                    | NOT RECOMMENDED                                                    |             | NOT RECOMMENDED     |
| --- OILS                                     |                    | NOT RECOMMENDED                                                    |             | NOT RECOMMENDED     |
| --- SOLVENTS                                 |                    | NOT RECOMMENDED                                                    |             | NOT RECOMMENDED     |
| TEMPERATURE RANGE                            |                    | -30° TO + 70°C                                                     |             | -30° TO + 70°C      |
| PROPERTIES                                   | TEST METHOD        | VALUES FPS UNITS                                                   | TEST METHOD | VALUES METRIC UNITS |
| COLOUR & DESIGN                              |                    | BLACK /RED /BLUE WITH GREY NEOPRENE BONDING LAYER & DIAMOND DESIGN |             |                     |

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