# DURASILE

# AF-OIL-WR (Metallic Grade)

## Technical Datasheet

**Material Type** : ASBESTOS FREE GASKET MATERIAL.

**Material Composition** : Aramid Fibres, Mineral Fibres with wire reinforced. (Binders: NBR)

**Application** : Suitable for oil resistance gasket material for medium to higher loading, Suitable for oils, fuels, lubricants, alcohols, gases, hydrocarbons, steam, water, cooling liquids, most-diluted acids & alkalis for medium stress conditions.

**Thickness** : **0.80mm** to **5.00 mm**

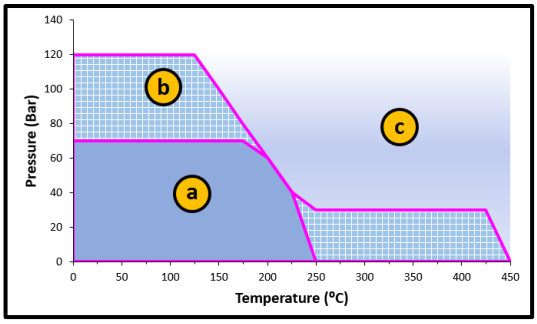
**Surface Finish** : Grey/Graphite

**Operating Condition**
: Max. Peak Temperature: **450 °C**
: Max. Operating Temperature: **250 °C**
: Max. Peak Pressure: **120 bar**
: Max. Continuous Temp. with steam: **220 °C**

**Dimensions of standard sheets** : 1500 X 1500 mm, 1500 X 2000 mm, 1500 X 2250 mm
1500 X 3000 mm, 1500 X 4500 mm, 2000 X 3000 mm

### Areas of Application

- Area **(a)** refers: The gasket material is normally suitable subject to chemical compatibility.
- Area **(b)** refers: The gasket material may be suitable but a technical support is recommended.
- Area **(c)** refers: Do not install the gasket without technical evaluation.




**(The following Information Applies to material Thickness 2.0mm.)**

| S No. | Typical Properties | Test Method | Specified Value | Unit |
|---|---|---|---|---|
| 1 | Density | ASTM F 1315 | 1.7 – 2.1 | g/cm$^3$ |
| 2 | Tensile Strength | ASTM F 152 | ≥ 10.5 | N/mm$^2$ |
| 3 | Compressibility | ASTM F 36 A | 7 – 17 | % |
| 4 | Recovery | ASTM F 36 A | ≥ 40 | % |
| 5 | Ignition Loss | DIN 52911 | ≤ 30.0 | % |
| 6 | **(A)** Stress Relaxation (16h, 175°C) | DIN 52913 / BS 7531 | ≥ 30.0 | N/mm$^2$ |
| | **(B)** Stress Relaxation (16h, 300°C) | DIN 52913 / BS 7531 | ≥ 23.0 | N/mm$^2$ |
| 7 | **Fluid Absorption** | | | |
| | **(A) In ASTM Oil No. 3 (5h, 150 °C)** | ASTM F 146 | | |
| | Increase in Mass | | ≤ 10 | % |
| | Increase in Thickness | | ≤ 10 | % |
| | **(B) In Fuel B (5h, 25 °C)** | ASTM F 146 | | |
| | Increase in Mass | | ≤ 10 | % |
| | Increase in Thickness | | ≤ 10 | % |
| | **(C) In Water (5h, 100 °C)** | ASTM F 146 | | |
| | Increase in Mass | | ≤ 15 | % |
| | Increase in Thickness | | ≤ 7 | % |

***Thickness & Size Tolerance: ± 5%**

**NOTE**: All information and recommendations given in this brochure are correct to the best of our knowledge. Since conditions of use are beyond our control. The information provided can only serve as a guideline. Users must satisfy themselves that products are suitable for the intended process and uses. We reserve the right to change product design and properties without notice.