



ID MATERIAL: 23  
RBLE: R. ANTICH  
REVISION: 5  
DATE: 23/05/2014

FRICTION MATERIAL:

# SAFF

## > DESCRIPTION

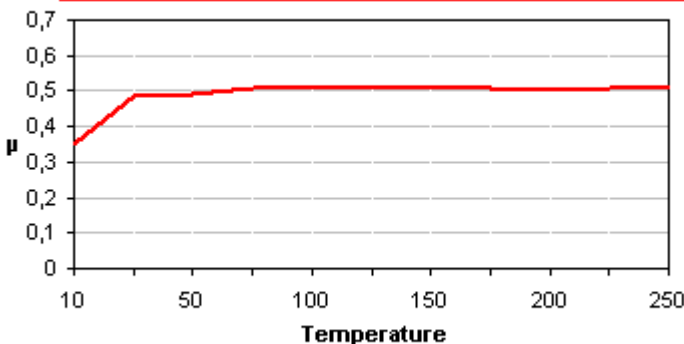
SAFF is green rigid molded friction material, which offers a very high friction coefficient. This material is reinforced with glass fibers and has a good mechanical resistance. The material consists phenolic resins with a NBR bonding system, short and large fibres, friction modifiers and fillers. SAFF is fully cured and suitable for bonding and riveting.

## > MATERIAL TABLE

| > FRICTION PROPERTIES                      | Value     | Unit                 |
|--|-----------|----------------------|
| Dynamic Friction Coefficient (@79N, 7m/s)  | 0.50±0.05 | μ                    |
| Wear Rate (@79N, 7m/s)                     | 90±10     | mm <sup>3</sup> /kwh |
| T <sup>º</sup> Fading (@100N, 11.5m/s)     | 320±10    | ºC                   |
| > PHYSICAL PROPERTIES                      |           |                      |
| Hardness (DIN53505)                        | 88±5      | Shore-D              |
| Specific Gravity (ASTM D792-91)            | 1.8±0.05  | gr/cm <sup>3</sup>   |
| Ignition Loss (ASTM D-2524)                | 40±2      | %                    |
| Acetone Extraction ISO2859-1               | 0.15±0.02 | %                    |
| > MECHANICAL PROPERTIES                    |           |                      |
| Tensile Strength (ASTM D638-10)            | 15±5      | N/mm <sup>2</sup>    |
| Compressive Strength (UNE 53205)           | 175±5     | N/mm <sup>2</sup>    |
| > RECOMMENDED WORKING VALUES               |           |                      |
| T <sup>º</sup> Max. Continuous Operation   | 250       | ºC                   |
| T <sup>º</sup> Max. Intermittent Operation | 350       | ºC                   |

|                                   |   |
|-----------------------------------|---|
| <b>MATERIAL TYPE</b>              | Ridgid mould friction material  |
| <b>APPEARANCE</b>                 |    |
| <b>FORMATS</b>                    |    |
| <b>APPLICATIONS</b>               | <ul style="list-style-type: none"> <li>• Industrial clutch</li> <li>• Rings segments for machinery</li> <li>• Torque limiter</li> </ul> |
| <b>RECOMMENDED MATING SURFACE</b> | Perlitic cast iron, hardness HB150-200  |
| <b>OIL RESISTANCE</b>             | Yes   |
| <b>RECOMMENDED ADHESIVE</b>       | Thermosetting adhesive  |
| <b>PRICE LEVEL</b>                | € € €   |
| <b>REACH (EC)1907/2006</b>        | Compliance  |
| <b>RoHS 2011/65/EU</b>            | Compliance  |

Friction coefficient (μ) vs Temperature (°C) @ 80psi 7m/s



## > LEGEND

