

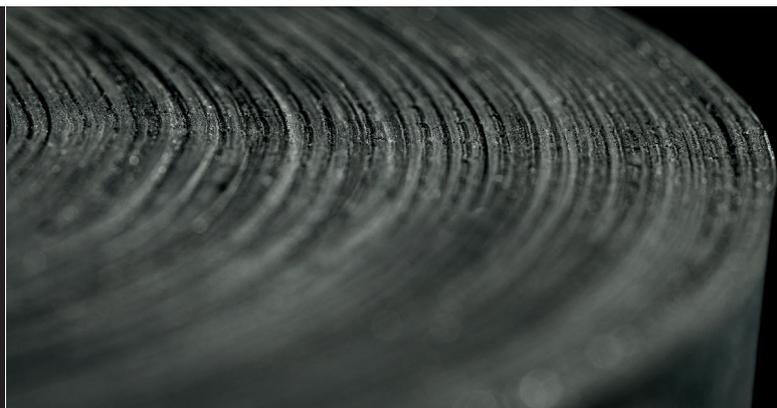


# S BF31

## TECHNICAL SHEETING

BLACK NBR 70

FOR TRANSFORMER OIL NITRILE SHEETING



### MECHANICAL & PHYSICAL PROPERTIES

#### MECHANICAL

Rubber Compound	NBR
Rubber Color	Black
Density	1.30 g/cm <sup>3</sup> ±0.05
Hardness (ISO 48-4)	70±5 Shore A
Tensile strength (ISO 37)	≥ 13 MPa
Elongation at break (ISO 37)	≥ 300 %
Compression set (ISO 815-1)	70h @ 100 °C : ≤40%

#### TEMPERATURE

Working temperature	-40/+130 °C
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#### AGEING

Δ Tensile strength (ISO 188)	168h @ 70 °C : ≤-20%
Δ Elongation at break (ISO 188)	168h @ 70 °C : ≤-30%
Ozone resistance (ASTM D1149, method B, proc. B1)	50 ppm, 48h, 40°C, 20% : Without cracks
Oil IRM 903, Δ Tensile strength (ISO 188)	after 72h at 100 °C : ≤-20%
Oil IRM 903, Δ Elongation at break (ISO 188)	After 72h at 100 °C : ≤-40%

#### OIL RESISTANCE

Oil IRM 901, Δ volume (ISO 1817)	70h @ 100 °C : -20/5%
Oil IRM 903, Δ volume (ISO 1817)	70h @ 100 °C : ±5%
Transformer oil, Δ volume (ISO 1817)	70h @ 100 °C : ≤ 5%%

### CHEMICAL RESISTANCE

Diluted acids and bases	Very good
Concentrated acids and bases	Good
Ozone	Good
Oils and hydrocarbons	Very good

### FEATURES

- High grade NBR for transformer oil.

### ADVANTAGES

- Excellent mechanical properties, compression set in particular
- Excellent temperature resistance
- Excellent low temperature resistance
- Excellent ageing resistance
- Excellent hydrocarbons resistance
- Matte finish to guarantee a good surface finished quality and to secure an easy unrolling.

### APPLICATIONS

- Cutting gaskets for sealing between the tank and the lid of immersed electrical transformers in contact with synthetic dielectric and mineral oils.
- No resistance to pyralene.

### MAINTENANCE RECOMMENDATION

- Always follow manufacturer warnings and instructions when using any cleaning product.



**DIMENSIONS**

Article number	Stock Situation	Thickness (mm)	Width (mm)	Length (mm)	Weight	Side 1 finish	Side 2 finish	Type of insertion	Number Of Insertions	Inner cardboard tube Ø mm
SMBF3100002001	STD NOT STOCK	2	1400 ±2%	15000 ±2%	2,58	Matt	Matt	-	0	80 mm
SMBF3100003001	STD NOT STOCK	3	1400 ±2%	10000 ±2%	3,87	Matt	Matt	-	0	80 mm
SMBF3100004001	STD NOT STOCK	4	1400 ±2%	10000 ±2%	5,16	Matt	Matt	-	0	80 mm
SMBF3100005001	STD NOT STOCK	5	1400 ±2%	10000 ±2%	6,45	Matt	Smooth	-	0	
SMBF3100006001	STD NOT STOCK	6	1400 ±2%	10000 ±2%	7,74	Matt	Smooth	-	0	

**IDENTIFICATION**

*Labelling*

Self-adhesive label indicating product name, dimensions, area in m<sup>2</sup>, nominal weight, and product code to allow product traceability. (94/62/EC - LDPE4)

*Wrapping*

Black polyethylene film.(94/62/EC - LDPE4)

*Packaging*

Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm in roll.

*Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.*