Technical Data Sheet

HILITE

An ISO/TS 16949 : 2009, ISO 14001:2004, OHSAS 18001 : 2007 Certified Company

HILITE AFM BASIC NON ASBESTOS GASKET JOINTING SHEET

Applications:

Water/Oil resistant gasket material for light to medium loading. Suitable for low operating pressure, e.g. transformers, compressors and also used for easily deformable components with low surface pressure like valve covers and pans in internal combustion engines.

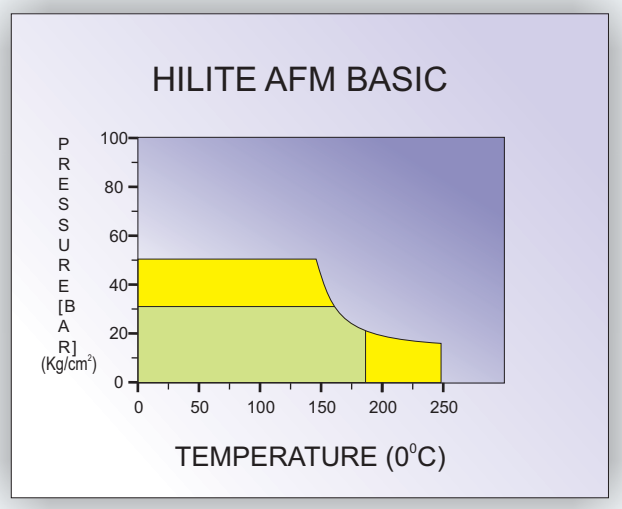
Material Composition (Type of fibres)	Cellulose Fibre, High Quality NBR & Organic Fibre
Binders	NBR
OPERATING CONDITION	
Max.Peak Temp	250°C
Max. Continuous Temp	180°C
Max.Continuous Temp.with steam	120°C
Max. Operating Pressure	50 Kg/cm^2

Physical Properties:

The following Information applies to material thickness 2.0 mm.

S.NO.	PROPERTIES	TEST METHOD	UNIT	SPECIFIED VALUE
1.	DENSITY		gm/cm^3	1.70 - 2.00
2.	TENSILE STRENGTH			
	(a) ACC to ASTM F152(ACROSS GRAIN)		N/mm^2	≥ 7
	(a) ACC to DIN 52910 (ACROSS GRAIN)		N/mm^2	≥ 5
3.	COMPRESSIBILITY	ASTM F36J	%	5 – 15
4.	RECOVERY	ASTM F36J	%	≤ 40
5.	FLUID ABSORPTION	ASTM F 146		
	(a) IN ASTM OIL NO. 3			
	INCREASE IN MASS		%	≤ 15
	INCREASE IN THICKNESS		%	≤ 10
	(b) IN FUEL B	ASTM F 146		
	INCREASE IN MASS		%	≤ 10
	INCREASE IN THICKNESS		%	≤ 10
	(c) IN WATER/ANTIFREEZE	ASTM F 146		
	INCREASE IN MASS		%	≤ 15
	INCREASE IN THICKNESS		%	≤ 15
6.	IGNITION LOSS	DIN 52911	%	≤ 40
7.	SEALABILITY AGAINST Nitrogen	DIN 3535	cm^3/min.	-
8.	STRESS RESISTANCE			
	16h 300^{0}C	DIN 52913	N/mm^2	–
	16h 175^{0}C	DIN 52913	N/mm^2	–

Standard Sheet Size		1500x2000 mm, 1500x4000mm, 1500x1500mm 1500x4500 mm, 1500x3000mm, 2000x3000 mm
Thickness		0.40 mm to 6.00 mm (For Non-Metallic Range) 0.80 mm to 6.00 mm (For Metallic Range)
Tolerance	Thickness	< 1mm = ± 0.10 mm > 1mm = ± 10%
	Length	± 50 mm
	Width	± 50 mm



All data quoted above are based on years of experience in production & operation of sealing elements, in view of the wide variety of possible installation & operating conditions one can not draw final conclusion in all application cases regarding the behaviour in gasket joint. The data may not therefore, be used to support any warranty claims.
Should you have any doubts about the choice of gasket material, please refer to us. Our engineering cell will be happy to assist you.

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