



An ISO/TS-16949 : 2009 Registered Company

General Data

Standard Roll Width	1000 ± 10mm
Slit Roll Width	500 ± 10 mm
Standard Thickness	0.25 to 1.20 mm(In Rolls) 1.00 to 1.50 mm(In Sheets)
Thickness Tolerance	As per ASTM

All information and recommendation 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. Should you have any doubts about the choice of gasket material, please refer to us. Our engineering cell will be happy to assist you.

NON ASBESTOS CYLINDER HEAD FACING MATERIAL

	HAF 9010	HAF 9011	HAF 9014 (G)	HAF 9015	HAF 9018	HAF 9020	HAF 9035	HAF 9040	MILL BOARD HAF 2000	GRAPHIL HAF 9000
Description	It is a light grey Aramid fiber based material manufactured with high temperature inorganic fillers and binder. It is a facing material for making a composite gasket meant for Cylinder Head application.	It is a light grey aramid fiber based material manufactured with high temperature inorganic fillers and binder. It is a facing material for making composite gasket meant for cylinder head applications.	Gasket material based on aramid fibers, graphite and fillers bonded with NBR, sulfur-free, in reels. Especially suitable as facing material for cylinder head gaskets in gasoline and engines as well as for intake/exhaust systems, turbo charger and air cooled small motors.	It is a light grey Aramid fiber based material made with a blend of reinforced fibers, Nitrile binders & Inorganic fillers. It is so designed to be easily fused on steel core for making Cylinder Head gaskets. It is recommended for OEM & after market applications.	It is a light grey Aramid fiber based material made with a blend of reinforced fibers, Nitrile binders & inorganic fillers. It is so designed to be easily fused on steel core for making cylinder head gaskets. It is recommended for OEM & after markets application.	It is a light grey Aramid fiber based material made with a blend of reinforced fibers, Nitrile binders & Inorganic fillers. It is so designed to be easily fused on steel core for making Cylinder Head gaskets. It is recommended for after market applications.	It is a grey colour reinforced fiber based material enriched with high temperature fillers. It is a multi purpose material recommended for use in exhaust & Intake manifold applications.	It is a medium density beater material with high torque resistance. It is a multi purpose material recommended for OEM applications.	It is a non asbestos mill board material sheets to be used as a filler material between metal sheets mainly used for exhaust manifold and heat shield applications.	It is a dark grey colour material with compositions of high temperature minerals like graphite and mica. It is recommended for use as filler material for Spiral Wound gasket.
Max. Operating Temperature	280°C	270°C	300°C	260°C	255°C	250°C	220°C	220°C	300°C	200°C
ASTM-104 :	F-726959E52M9	F-729959E52M9	F-729000E00M9	F-729950E52M9	F-729959E52M3	F-726999E52M9	F-726990E92M9	F-729950E92M9	F-734000E00M9	F-724996E92M9
DENSITY gm/cm ³	1.20 ± 0.05	1.15 ± 0.05	1.00 – 1.20	1.15 ± 0.05	1.15 ± 0.05	1.20 ± 0.05	1.15 ± 0.05	1.30± 0.05	1.15-1.25	1.15 ± 0.05
COMPRESSIBILITY at 350 kg/cm ² %	25-40	15-35	20-45	15-30	20-35	25-40	25-40	20-35	---	15-25
at 70 kg/cm ² %	---	---	---	---	---	---	---	---	15-25	---
RECOVERY %	20	20	10	20	20	20	20	25	25	20
TENSILE STRENGTH kg/cm ²	20	25	30	30	35	40	30	50	25	50
LOSS OF IGNITION at 850°C %	23	24	80	25	27	29	35	35	21	35
FLUID ABSORPTION										
WEIGHT INCREASE										
In ASTM Oil No.3 %	40	40	---	40	40	45	50	40	---	50
In ASTM Fuel B %	35	40	---	40	40	40	45	35	---	50
In Water - Distilled %	45	50	---	75	50	50	---	---	---	60
THICKNESS INCREASE										
In ASTM Oil No.3 %	10	10	---	10	10	10	10	10	---	10
In ASTM Fuel B %	10	10	---	10	10	10	10	10	---	10
In Water - Distilled %	15	15	---	20	20	15	---	---	---	30
OPERATING TEMPERATURE °C	280	270	300	260	255	250	220	220	300	200
RECOMMENDED APPLICATIONS	CYLINDER HEAD GASKETS									

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. WHENEVER THERE IS ANY DOUBT, OUR STAFF WILL BE PLEASED TO ASSIST YOU IN FINDING THE OPTIMUM SEALING SOLUTION.