Standard Roll Lengths For Different Thickness (In Sq. Mtr.)

G R A D E S

Thickness(mm)	HAF 9004	HAF 9005N	HAF 9060	HAF-9082	HAF 9082 (HD)	HAF 9085(LD)	HAF 9085 (HT)	HAF 9115	HAF 9300	HAF 9313	HAF 9316	HILITE 75	HILITE 85	HAF S-607	HAF S-707
0.25			180	180	-										
0.30	-	-	150	150	-	-	-	-	-	-	-	-	-	-	-
0.40	-	-	110	110	110	-	110	-	-	-	-	-	-	-	-
0.50	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
0.60	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
0.70	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
0.75	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
0.8	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
1.00	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
1.20	36	36	36	36	36	36	36	36	1x36	1x36	1x36	1x1.2	1x1	1x1.2	1x1.2
1.50	1x30	1x30	1x30	1x30	1x30	1x30	1x30	1x30	1x30	1x30	1x30	1x1.2	1x1	1x1.2	1x1.2
	62 ± 3	63 ± 3	56 ± 3	56 ± 3	58 ± 3	54 ± 3	56 ± 3	70 ± 3	58 ± 3	56 ± 3	65 ± 3	45 ± 3	40 ± 3	45 ± 3	45 ± 3

The data given in this brochure has been compiled to the best of our knowledge and is given without any obligation. In view of the multiplicity of operating and installation conditions as well as process and application techniques, the information provided can serve only as a general guideline. The demands made on gasket materials are manifold. In order to be able to make the right choice in terms of material and design. It is essential to be familiar with the mechanical, thermal and chemical conditions to which a particular gasket will be subjected during operation. In particular, the following below mentioned factors influence the result.

- Dimensions and design of the gasket.
- Properties of the gasket materials selected.
- Condition and design of the sealing surface/flange.
- Operating pressure.
- Effective temperature.
- Substance to be sealed-off.

ISO/ TS-16949:2009

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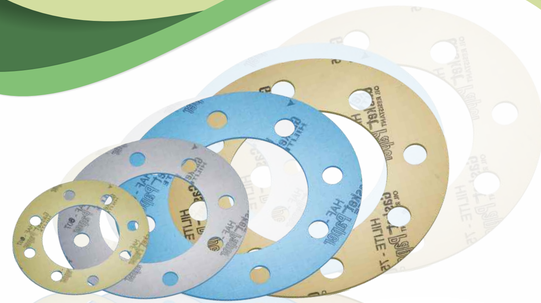
Non Asbestos Gasket Materials



Asbestos Free Beater Addition Soft Gasket Materials

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Manufacturers of:
Non Asbestos Beater Addition Jointing material

Add. : B-1 Site-1, Bulandshahar Road Industrial Area, GHAZIABAD-201001 (U.P.) INDIA
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Asbestos Free Beater Addition Gasket Material

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Non Asbestos Gasket Material

ISO/TS-16949:2009 DNV

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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 SOFT GASKET MATERIAL

LOW DENSITY GASKET MATERIAL

	HAF 9004	HAF 9005N	HAF 9060	HAF 9082	HAF 9082 (HD)	HAF 9085 (LD)	HAF 9085 (HT)	HAF 9115	HAF 9300	HAF 9313	HAF 9316	HILITE 75	HILITE 85	HAF S-607	HAF S-707
	A high density high performance material used in a wide variety of Applications offers excellent resistance to water coolant. oil and fuels. Excellent strength and sealability characteristics , fully cured nitrile butadience	It has a fully cured nitrile butadiene rubber binder for maximum fluid resistance. It has excellent sealability in a variety of environments and flange conditions.	It is a mix of reinforced fibers and nitrile rubber compositions with outstanding sealing characteristics. This material is an economical alternative for soft gasket applications like Oil/ fuel/water areas, carburetors, gearboxes, oil pans etc.	It is a mix of reinforced fibers with high rubber content. It is a flexible material with high recovery property and can be used for soft gasket application like oil/fuel/Water pumps, carburetors, gearboxes, oil pans etc. for OEM applications .	It is a mix of reinforced fibers with high rubber contents. It is a flexible material with high recovery property and can be used for soft gasket application like oil/fuel/Water pumps, carburetors, gearboxes, oil pans etc. for OEM applications .	A low density performance material used in a wide variety of Applications. Offers excellent resistance to water coolant, oil and fuels. Excellent strength and sealability characteristics , fully cured nitrile butadience Binder for applications	A high density high performance material used in a wide variety of Applications. Offers excellent resistance to water coolant, oil and fuels. Excellent strength and sealability characteristics , fully cured nitrile butadience Binder for applications	Gasket material is design for heavy-duty applications including compressors, diesel engines and other. It has excellent low flange pressure sealability and bolt torque retention.	Economical Controlled swell alternative to high swell material. Latent cured styrene binder on heat resisting thermally stable fiber, offers good sealing characteristics at low flange surface.	Premium Quality Controlled swell material. Conforms well to flange surface imperfections. This material contains a latent cure styrene binder with a blend of cellulose & aramid fibers. Recommended for water & oil applications .	It is fully cured styrene butadiene rubber binder and a blend of Aramid and cellulose fibers. It is intended for oil and water application.	It is a low density fiber gasket material with nitirile rubber binders. It is a general purpose material for applications such as Material handling equipments, chemical pumps & pipelines, diesel engines, oil, fuel, water pumps, carburetor, gear boxes & Oil Pans etc.	It is a Cellulose fiber gasket material with nitrile rubber binders. It is a general purpose material for applications such as Material handling equipments, chemical pumps & pipelines, diesel engines, oil, fuel, water pumps, carburetor, gear boxes etc.	It is a low density fiber gasket material with styrene butadine rubber binder. It is a suitable replacement for asbestos fiber gasket materials saturated paper and is used in many oil & Coolent applications in the after market.	It is a low density fiber gasket material with controlled swell styrene butadine rubber binder. It is a suitable replacement for asbestos fiber gasket materials saturated paper and is used in many oil & Coolent applications in the after market.
	intermittent Operating Temperature 190°C	Max. Operating Temperature 290°C	Max. Operating Temperature 180°C	Max. Operating Temperature 180°C	Max. Operating Temperature 180°C	intermittent Operating Temperature 190°C	intermittent Operating Temperature 190°C	Max. Operating Temperature 205°C	intermittent operating temperatures up to 250°C	Intermittent operating Temperature up to 290°C	Max. Operating Temperature 290°C	Max. Operating Temperature 150°C	Max. Operating Temperature 180°C	Max. Operating Temperature 150°C	Max. Operating Temperature 180°C
SPECIFICATION COMPLIANCE	ASTM-104 : F-729955E59M9	ASTM-104 : F-729959E59M9	ASTM-104 : F-729999E59M9	ASTM-104 : F-729955E59M9	ASTM-104 : F-729955E59M9	ASTM-104 : F-729995E99M9	ASTM-104 : F-723940E43M9	ASTM-104 : F-729000E00M9	ASTM-104 : F-739454E46M9	ASTM-104 : F-729900E09M9	ASTM-104 : F-729900E09M9	ASTM-104 : F-324999E92M9	ASTM-104 : F-325996E92M9	ASTM-104 : F-329966E99M9	ASTM-104 : F-329999E99M9
PHYSICAL PROPERTIES (As Per ASTM)															
DENSITY F-1315 gm/cm³	1.35 ± 0.05	1.40 ± .05	1.25 ± 0.05	1.20	1.30 ± 0.05	1.15 ± 0.05	1.35 ± 0.05	1.54	1.25 min	1.36 min	1.44 min	1.00 ± 0.05	0.80 min	1.00 ± 0.05	0.90 -1.10
COMPRESSIBILITY F-36 J at 350 kg/cm² %	15-30	15-30	15-30	15-30	15-30	---	---	13-25	---	12-25	15-25	---	---	---	---
at 70 kg/cm² %	---	—	---	---	---	10-30	10-20	---	10-25	---	—	15-25	20-30	10-25	10-30
RECOVERY %	35	30	25	35	35	45	50	40	40	25	40	35	45	30	30
TENSILE STRENGTH F-152 kg/cm²	80	100	110	110	110	60	125	100	100	85	100	100	125	100	98
LOSS OF IGNITION F-495 at 850°C %	—	—	---	---	---	---	---	—	---	---	---	---	---	---	---
FLUID ABSORPTION F-146															
WEIGHT INCREASE															
In ASTM Oil No.3 %	40	40	45	40	40	35	30	—	40	N.S	—	50	45	60	30-70
In ASTM Fuel B %	40	40	40	40	40	35	30	—	30	N.S	—	45	50	50	25-65
In Water - Distilled %	40	50	45	40	40	40	N.S.	—	30	N.S	—	65	60	60	25-65
THICKNESS INCREASE															
In ASTM Oil No.3 %	30	20	20	20	20	20	10	—	15-30	30-70	25-65	10	7	20	15-35
In ASTM Fuel B %	25	20	20	20	20	20	15	—	15-35	20-50	10-40	10	10	35	15-40
In Water - Distilled %	20	20	20	20	20	20	N.S.	—	20		—	35	35	35	20-60
OPERATING TEMPERATURE °C	190	290	180	180	180	190	190	205	250	290°c	290	150	180	150	180
RECOMMENDED APPLICATIONS	SOFT GASKETS											GENERAL PURPOSE 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.