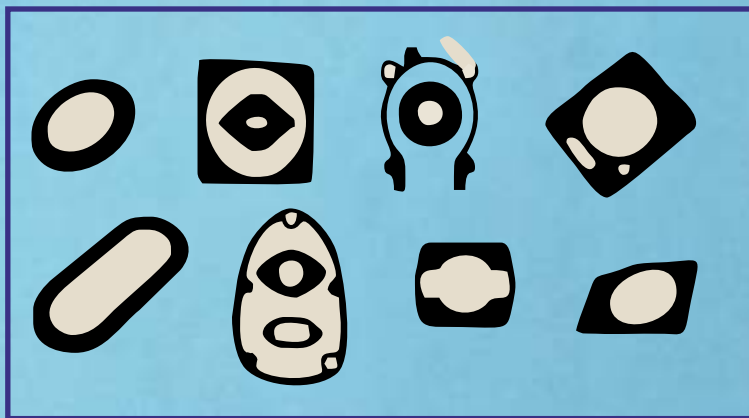
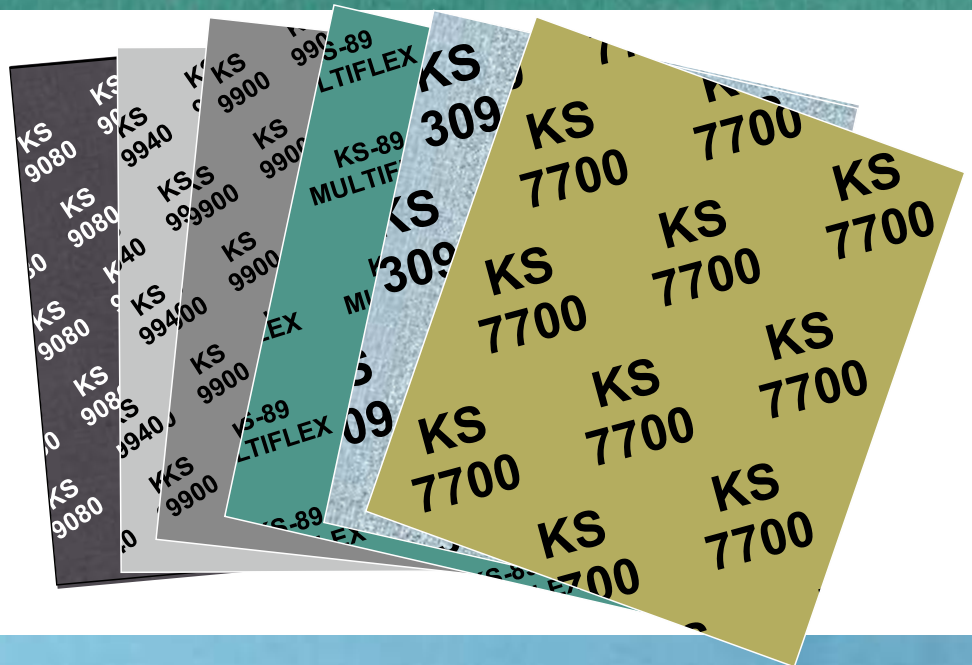
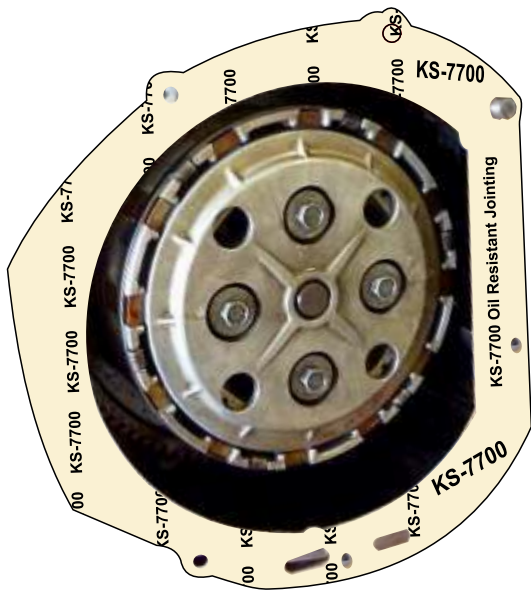




# KING SEAL®

**Product CATALOGUE**



**Beater Addition Jointing  
& Gasket Paper**



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**BETAflex JOINTING**



## BETAflex JOINTING

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**Bahadurgarh Based Betaflex Jointing Pvt. Ltd.** is GROUP of Industries and leader in serving **Asbestos free Jointing Sheets, Asbestos Free Beater Sheets , Cellulose Gasket Paper, Non asbestos jointing sheets with wire, Jointing Sheets , Beater Addition Sheets, Industrial Gasket** and many more products of exceptional quality, functionality and use. Our company, since the beginning, has been focused to enhance customers' contentment through exceptional service of making fast delivery of aforesaid products. With customers in focus, our company is ensuring fair and honest business dealings. Customers associated with our company know the benefit of getting products at their doorstep, without any delay or any other hassle.

We have earned a worldwide reputation. At BETAFLEX, We extend our highly-trained and expert workforce to make sure your needs are met. Some of our major clients include various power plants, steel plants and the automobile sector.

We are an advanced quality testing unit well equipped with all the requisite testing facilities. In future, we aim at further adding more advance products in our product line.

**KING SEAL<sup>®</sup>**





## BETAflex JOINTING

# INDEX

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### General Data

**Availability :**

**Roll Width : 1100 mm**

**Roll Weight : 50 kg. - 300 kg.**

**Thickness Range : 0.3 mm - 3 mm**

**Other Special Size (on demand).**

Tolerances Thickness:  $\leq 0.5\text{mm} = \pm 0.5\text{mm}$   
 $\geq 0.5\text{mm} = \pm 10\%$

Max. value of temperature should not be used simultaneously, they are give only as guidance.

Max. temperature depends not only on the type of gasket material but also on the application condition such as thickness of material, nature of service medium type of flange, surface etc.

Technical specifications are subject to change without prior notice.



## BETAflex JOINTING

# KS - AF9900



**Basis :** It is a dark grey colour material composed of high temp. Minerals like graphite & mica. It is recommended as a filler material for spiral wound gasket.

Material Quality : **KINGSEAL AF 9900**  
 Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.15±0.05
2.	Compressibility @ 1000 psi (ASTMF-36)	15-25%
3.	Recovery (ASTMF36)	20% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	50 (min)
5.	Loss of Ignition at 850°C	35% (max)
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@ 150°C)	50% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	50% (max)
	Water Distilled (5 Hrs@21 to 30°C)	60% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	10% (max)
	ASTM Fuel B (5 Hrs@ 21 to 30°C)	10% (max)
	Water Distilled (5 Hrs@ 21 to 30°C)	30% (max)
8.	<b>OPERATING TEMPERATURE</b>	200°C



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## BETAflex JOINTING

# KS - AF 9910

Ks  
9910

**Basis :** It is a light grey colour synthetic fibre based material manufactured with high temperature fillers and binder. It is a Jointing material for making composite gasket meant for cylinder head applications. It is recommended for O.E.M. applications.

Material Quality : **KINGSEAL AF 9910**  
Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.20±0.05
2.	Compressibility @ 5000 psi (ASTMF-36)	25-40%
3.	Recovery (ASTMF36)	20% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	35 (min)
5.	Loss of Ignition at 850°C	25% (max)
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@21 to 150°C)	40% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	35% (max)
	Water Distilled (5 Hrs@21 to 30°C)	45% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	10% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	10% (max)
	Water Distilled (5 Hrs@21 to 30°C)	15% (max)
8.	<b>OPERATING TEMPERATURE</b>	250°C



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## BETAflex JOINTING

# KS - AF 9920

Ks  
AF 9920

**Basis :** It is grey colour material manufactured with reinforced fibres, fillers and nitrile binders. It is so designed to be suitably fused on steel core for making cylinder head gaskets.

Material Quality : **KINGSEAL AF 9920**  
Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.20±0.05
2.	Compressibility @ 5000 psi (ASTMF-36)	25-40%
3.	Recovery (ASTMF36)	20% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	40 (min)
5.	Loss of Ignition at 850°C	25% (max)
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@ 150°C)	45% (max)
	ASTM Fuel B (5 Hrs@ 21 to 30°C)	40% (max)
	Water Distilled (5 Hrs@ 21 to 30°C)	50% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	10% (max)
	ASTM Fuel B (5 Hrs@ 21 to 30°C)	10% (max)
	Water Distilled (5 Hrs@ 21 to 30°C)	15% (max)
8.	<b>OPERATING TEMPERATURE</b>	280°C



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## BETAflex JOINTING

# KS - AF 9930

KS  
AF 9930

**Basis :** It is grey colour reinforced fibre based material enriched with high temperature fillers. It is multi-purpose material, which can be used for high Temp. Applications.

Material Quality : **KINGSEAL AF 9930**  
Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.15±0.05
2.	Compressibility @ 5000 psi (ASTMF-36)	25-40%
3.	Recovery (ASTMF36)	20% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	30 (min)
5.	Loss of Ignition at 850°C	30% (max)
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@ 150°C)	50% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	45% (max)
	Water Distilled (5 Hrs@21 to 30°C)	60% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	10% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	10% (max)
	Water Distilled (5 Hrs@100°C)	15% (max)
8.	<b>OPERATING TEMPERATURE</b>	250°C



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## BETAflex JOINTING

# KS - AF 9940

**Basis :** It is a high density beater material with high torque resistance. It is a multipurpose material.

Material Quality : **KINGSEAL AF 9940**

Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.30±0.05
2.	Compressibility @ 5000 psi (ASTMF-36)	20-35%
3.	Recovery (ASTMF36)	25% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	50 (min)
5.	Loss of Ignition at 850°C	35% (max)
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@ 150°C)	40% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	35% (max)
	Water Distilled (5 Hrs@21 to 30°C)	50% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	10% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	10% (max)
	Water Distilled (5 Hrs@ 21 to 30°C)	15% (max)
8.	<b>OPERATING TEMPERATURE</b>	220°C



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## BETAflex JOINTING

# KS - 9080

**Basis :** It is a mix of reinforced fibres cellulose fibre and nitrile composition with outstanding sealing characteristics. This material can be used for soft gasket applications like oil / fuel / water carburetors, gearboxes, oil pans etc.

Material Quality : **KINGSEAL 9080**  
Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	1.25±0.05
2.	Compressibility @ 5000 psi (ASTMF-36)	15-30%
3.	Recovery (ASTMF36)	35% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	110 (min)
5.	Loss of Ignition at 850°C	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (5 Hrs@ 150°C)	40% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	40% (max)
	Water Distilled (5 Hrs@21 to 30°C)	40% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (5 Hrs@150°C)	20% (max)
	ASTM Fuel B (5 Hrs@21 to 30°C)	20% (max)
	Water Distilled (5 Hrs@ 21 to 30°C)	20% (max)
8.	<b>OPERATING TEMPERATURE</b>	180°C



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Friendly



## BETAflex JOINTING

# KS - 7700

# Ks 7700

**Basis :** It is a cellulose fibre gasket material suitable for any type of sealing applications such as material handling equipments, chemical pumps and pipelines diesel engines, oil / fuel / water pumps, carburettor, gear boxes, oil pans etc.

Material Quality : **KINGSEAL 7700**  
Specification : ASTM F-104 Type-3

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup>	0.85±0.05
2.	Compressibility @ 1000 psi (ASTMF-36)	15-25%
3.	Recovery (ASTMF36)	35% (min)
4.	Tensile Strength Kg/cm <sup>2</sup>	140 (min)
5.	Loss of Ignition at 850°C	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (22 Hrs@21 to 30°C)	40% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	50% (max)
	Water Distilled (22 Hrs@21 to 30°C)	65% (max)
	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (22 Hrs@21 to 30°C)	8% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	10% (max)
	Water Distilled (22 Hrs@21 to 30°C)	35% (max)
7.	<b>OPERATING TEMPERATURE</b>	150°C



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## BETAflex JOINTING

# KS - SUPER

**KS**  
**SUPER**

**Basis :** It is a cellulose fibre gasket material with controlled swell Nitrile rubber blinder. It is a suitable replacement for Asbestos fibre gasket materials, saturated paper.

Material Quality : **KINGSEAL SUPER**  
Specification : ASTM F-104 Type-3

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cm <sup>3</sup> (ASTMF-1315)	1.00±0.05
2.	Compressibility @ 1000 psi (ASTMF-36)	10-25%
3.	Recovery (ASTMF36)	30% (min)
4.	Tensile Strength (Kg/cm <sup>2</sup> )	100 (min)
5.	Loss of Ignition at 850° C	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (22 Hrs@21 to 30°C)	50% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	50% (max)
	Water Distilled (22 Hrs@21 to 30°C)	60% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (22 Hrs@21 to 30°C)	10% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	10% (max)
	Water Distilled (22 Hrs@21 to 30°C)	35% (max)
8.	<b>OPERATING TEMPERATURE</b>	150°C

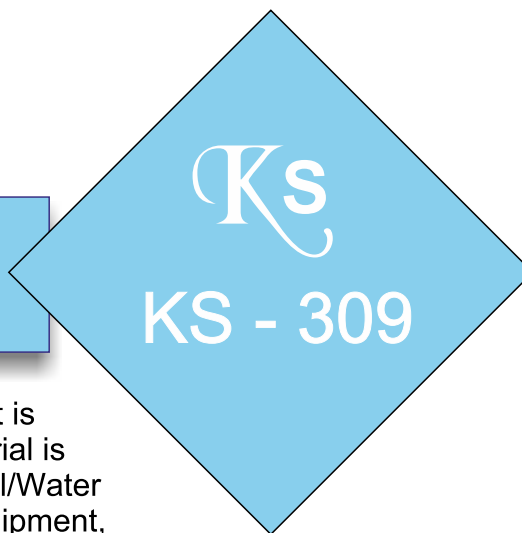


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## BETAflex JOINTING

# KS - 309



**Basis :** It is a Cellulose fibre gasket material with Nitrile blinder, it is used in many Oil & Coolant application in the market. This material is an economical alternative for soft gasket applications like Oil/Fuel/Water areas, Carburettors, Gearboexs, Oil Pans, Material Handling Equipment, Chemical Pumps & pipe Lines, Diesel Engines etc. It can be made available in any colour.

Material Quality : **KINGSEAL - 309**  
 Specification : ASTM F-104 Type-3

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cc (ASTMF-36)	0.90-1.05
2.	Compressibility % AT 70 kg/cm <sup>2</sup> (1000 PSI)	15-25
3.	Recovery % (ASTMF-36)	>35(min)
4.	Tensile Strength kg/cm <sup>2</sup>	>100
5.	Fluid Resistance	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (22 Hrs@21 to 30°C)	50% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	50% (max)
	Water Distilled (22 Hrs@21 to 30°C)	60% (max)
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (22 Hrs@21 to 30°C)	10% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	10% (max)
	Water Distilled (22 Hrs@21 to 30°C)	30% (max)
8.	<b>OPERATING TEMPERATURE</b>	150°C



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## BETAflex JOINTING

# KS-MULTIFLEX-95

**Ks**  
Multiflex  
95

**Basis :** It is a reinforced cellulose material FOR multipurpose use in coolant and oil applications with excellent properties adhering to compressibility, strength & sealability. Available in green, Red and Yellow colour.

Material Quality : **MULTIFLEX-95**  
Specification : ASTM F-104 Type-3

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cc (ASTMF-36)	1.45 min
2.	Compressibility % AT 70 kg/cm <sup>2</sup> (1000 PSI)	10-20%
3.	Recovery % (ASTMF-36)	>40 (min)
4.	Tensile Strength kg/cm <sup>2</sup>	>100 (min)
5.	Fluid Resistance	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (22 Hrs@21 to 30°C)	40% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	40% (max)
	Water Distilled (22 Hrs@21 to 30°C)	
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (22 Hrs@21 to 30°C)	10% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	10% (max)
	Water Distilled (22 Hrs@21 to 30°C)	
8.	<b>OPERATING TEMPERATURE</b>	195°C

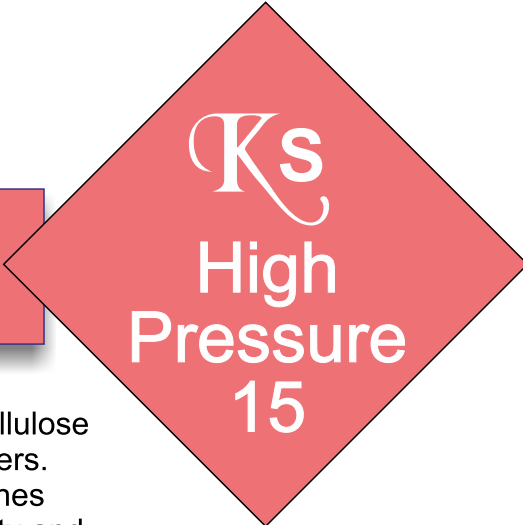


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## BETAflex JOINTING

# KS - High Pressure-15



**Basis :** KS High Pressure-15 is a mix of synthetic fibres having cellulose component in it with high levels of nitrile and synthetic rubber binders. Primarily used in low-medium pressure Compressors, Diesel Engines & other applications. It has excellent low flange pressure seal-ability and bolt torque retention. It is intended for applications with max.

Material Quality : **HIGH PRESSURE - 15**  
 Specification : ASTM F-104 Type-7

### Technical Specifications

S.No.	CHARACTERISTICS	SPECIFIED VALUES
1.	Density gm/cc (ASTMF-36)	1.45-1.55
2.	Compressibility % AT 350 kg/cm <sup>2</sup> (5000 PSI)	13-25
3.	Recovery % (ASTMF-36)	>40 (min)
4.	Tensile Strength kg/cm <sup>2</sup>	>110 (min)
5.	Fluid Resistance	
6.	<b>FLUID ABSORPTION</b>	
	<b>Weight Increase</b>	
	ATM Oil No.3 (22 Hrs@21 to 30°C)	20% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	20% (max)
	Water Distilled (22 Hrs@21 to 30°C)	
7.	<b>THICKNESS INCREASE</b>	
	ASTM Oil No.3 (22 Hrs@21 to 30°C)	8% (max)
	ASTM Fuel B (22 Hrs@21 to 30°C)	8% (max)
	Water Distilled (22 Hrs@21 to 30°C)	
8.	<b>OPERATING TEMPERATURE</b>	210°C



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single solution for all gasket material

**BETAFLEX JOINTING**  
(ISO 9001:2015 Certified Co.)



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