



EUROPEAN
SEALING
TECHNOLOGY
Seals for industry

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Technical Data Sheet

EST-MCSS (flexible reinforced mica sheets for gasket applications)

Description: EST-MCSS

Beside the softness and high temperature resistance/insulation properties of the Mica EST-Temp resistance/insulation, EST-MCSS gaskets have additional interesting properties. The stainless-steel insert increases resistance against pressure but also firmness of the gasket. Which can widely ease mounting, especially on large size gaskets.



Size: EST-MCSS

Thickness: 1 – 3.0 mm
Width: 1000 mm
Length: 1200 mm

Customized strips and punched/waterjet parts on request.

To avoid sharp edge, EST normally use water jet.

Composition: EST-MCSS

One perforated stainless-steel SS316L insert of 0.1mm thickness

Two layers of high-grade Phlogopite mica paper impregnated with a silicone binder.

This aluminosilicate of mineral origin gives EST-MCSS its thermal characteristics and high resistance to acids, mineral oils and solvents.



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Density: (IEC 60371-2)	1.8 – 2.2 g/cm ³
Max. Pressure:	5 bar
Max. Gasket load :	100N/mm ²
Tensile Strength: (DIN 52910)	> 20 N/mm ²
Compressive strength: (DIN52913)	~ 40 N/mm ²
Compressibility: (ASTM F36-J)	12-20 %
Ignition lost at 800°C: (DIN 52911)	<5 %
Thickness increase: (ASTM F 146)	<10 %
Weight increase: (ASTM F 146)	<25 %

Heat Resistance:

In Continuous Service:	800 °C
In Intermittent Service:	1000 °C