Thermoseal ML-S723

High performance multi-layer sheet

Multi-Layer Technology materials provide both exceptional interfacial and interstitial sealability. Conformable outer layers prevent leakage between the gasket and flanges and a strong high-density core provides structural support while preventing leakage through the gasket.

ML-S723 is a controlled-swell gasket material intended for heavy-duty applications. ML-S723's blended styrene butadiene and natural rubber binder provides exceptional sealability and conformability with low creep relaxation. Thickness increase, in the presence of oils and fuels, aids the sealing of irregular flange surfaces.

Typical applications include diesel engine oil pan gaskets and gear plate and rear seal carrier gaskets with intermittent operating temperatures up to 350°F (177°C).

TYPICAL VALUES REFER TO 1/16" THICK MATERIAL UNLESS NOTED

Temperature maximum	350°F (177°C)
Pressure maximum	435 psi (3 MPa)
Density ASTM F1315	100 lb/ft³ (1.6 g/cm³)
Compressibility ASTM F36 J	Minimum 15 %
Recovery ASTM F36 J	Minimum 40 %
Gas Permeability DIN 3535/6	< 0.5 ml/min
Weight increase ASTM F146	
After immersion in Fuel B for 5h/73°F	Maximum 35 %
Thickness increase ASTM F146	
After immersion in Oil IRM 901 for 5h/300°F	0 - 10 %
After immersion in Oil IRM 903 for 5h/300°F	30 - 40 %
After immersion in Fuel A for 5h/73°	0 - 15 %
After immersion in Fuel B for 5h/73°F	20 - 35 %
Creep relaxation ASTM F38 B (1/32")	Maximum 35 %
Sealability ASTM F37 (1/32")	< 0.20 ml/hr
ASTM F104 Line Call Out	F714532B6E56K6M4
Color	Black

The ability of a gasket to make and maintain a seal depends not only on the style and quality of the gasket material, but also on medium being sealed, the flange design, the amount of pressure applied to the gasket by the bolts and how the gasket is assembled onto the flanges and tightened. These factors are beyond the manufacturer's control.

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