

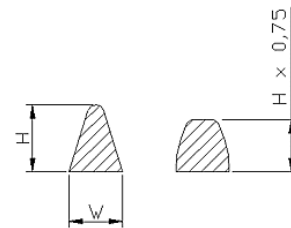
Max-Shield Form-In-Place Gasket

Tri-Shield series

Dimensions

Trishield is available in all dimensions from 0.5 mm to 3.0 mm. (Other dimensions can also be supplied to meet special requirements.) The width is generally the same as the required height. The gasket is triangular, so the width is smaller at the top of the gasket. Trishield's properties are at their best in a high, narrow gasket. Here are some examples of common dimensions in free and compressed condition.

Product code	Build-in height	Dimensions for beads(mm)		Filler
		h (nom.)	w (max.)	
Trishield 8800/0,8	0.5	0.8±0.08	0.9	Ag/Ni
Trishield 8800/1,0	0.7	1.0±0.10	1.1	Ag/Ni
Trishield 8800/1,2	1	1.2±0.15	1.2	Ag/Ni
Trishield 8800/1,7	1.3	1.7±0.15	1.6	Ag/Ni



Compression set properties

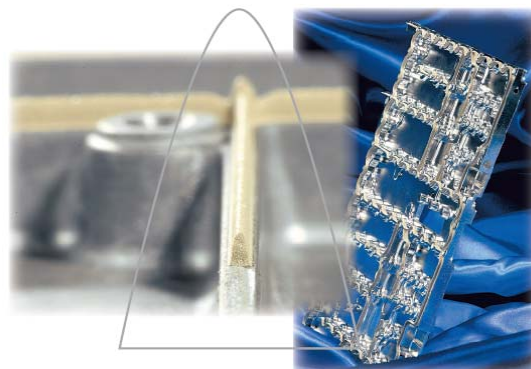
Compression set is the permanent deformation of the material after compression. It is measured according to ISO 815 and with a gasket height of 1.6 mm. The gasket is compressed 25 % for about 72 hours at 85 °C. With Trishield technology, a level of about 17 % can be achieved.

Bleeding

In tests, the gasket is compressed 25 % for 22 hours against a piece of white paper. Trishield showed no signs of leakage

Corrosion properties

The diagram below shows little difference between aged or non-aged material for the Trishield material. If the material retains excellent shielding properties after ageing, it has good ageing properties.



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Compression forces

A lower compression force can be used with Trishield technology, because of its geometry and the fact that it contains less material than earlier gaskets. Trishield gives about 30 % lower compression force than earlier dispensing materials. In percentage terms you gain more with a thicker gasket. See the table below.

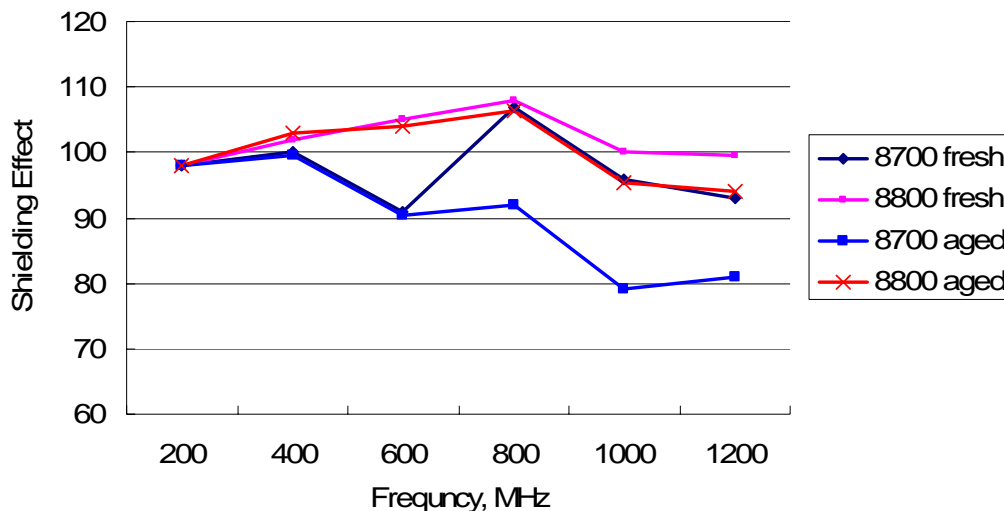
Gasket	Force @ 10% defl. N/cm	Force @ 20% defl. N/cm	Force @ 25% defl. N/cm	Force @ 30% defl. N/cm	Force @ 50% defl. N/cm
Trishield 8800	3,0	6,1	7,7	9,6	30,1

Shielding properties

Trishield technology orients the particles in the gasket for better contact with each other. This gives better shielding capacity for the same amount of filler. This means improved shielding and today's level of conducting particles.

Another option is a lower degree of filler in the gasket and shielding equal to today's level. This gives even lower compression forces and a lower price. Depending on application this can be varied from case to case. The diagram shows the shielding capacity before and after ageing of the materials 8700 vs. Trishield 8800.

Shielding effectiveness comparison



The cost picture

Trishield technology makes better use of included components than today's systems. Machine time and consumption of materials are reduced. Because of its higher technical level, the material is slightly costlier to produce. Overall, Trishield gives a better price for a gasket with a given height and length.

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