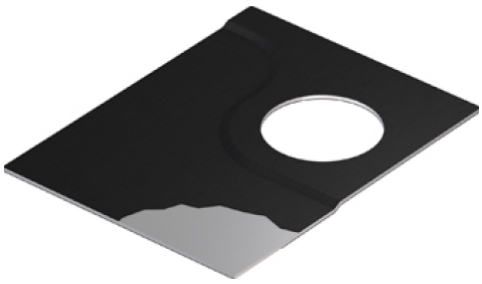
METAL

FOAM NBR



GASKET MATERIAL

Material

Metal Foam NBR consists of carbon with a 65 µm thick nitrile rubber (NBR) coating on both sides and a 0.20 mm thick steel material in between. It is also a high quality elastomer coated steel material. The surface of this material is different from normal Metal NBR and its surface looks like a foam-like pattern.

Properties

Gaskets made of ''Metal Foam NBR'' materials are always beaded. This gives these special rubber/metal gaskets a unique combination of sealing properties:

- very good conformability to irregular sealing faces
- reliable sealing off of liquids and gases
- high elasticity of installed gasket (recovery)
- mechanical strength

Moreover, gaskets made of ''Metal Foam NBR'' materials also have very good thermal resistance and are resistant to oils, fuels, anti-freeze, refrigerants (Freons), biodegradable lubricants and non-polar solvents.

Application

-For cylinder head gaskets or other sealed joints subjected to higher mechanical and/or thermal stresses, e.g. intake manifolds, oil pans, valve covers, transmission flanges, axles, engine anicillaries and valves, as well as for housings, compressors, and pumps.
-Used especially for narrow sealing faces with low surface pressure.

Technical Data

Weight per surface unit	kg/m²	≈ 2.15
Residual stress	N/mm²	> 45
Swelling		
in IRM 903 Oil	%	< 5
in ASTM Fuel B	%	< 5
in water / antifreeze	%	< 5
Short-term peak temperature	C	240
Operating temperature	C	-40 / +200

Form of Delivery

Gaskets according to a drawing, dimensions supplied, or other arrangement, max. width 500 mm...

Nominal thicknesses and tolerances (mm) 0.90 mm