



Gasket Sheets

BA-HC



Gasket material with high compressibility. Specially designed for demanding applications where sealability on rough and uneven sealing surfaces is required.

PROPERTIES AND APPLICATION

For sealing of applications with rough and uneven sealing surfaces. It can be used for sealing of mineral oils, fuels, lubricants, cooling liquids, steam, air and many other media. Typical applications are: compressors, pumps, boilers, valves, fittings ...

Basis	
Composition	Synthetic fibers, NBR, special fillers
DIN 28091-2	FA-M1-0
Colour	Off white

SURFACE TREATMENT

Treatment with special antistick coating, PTFE or graphite is available on request.

DIMENSIONS OF STANDARD SHEET

Sheet size (mm): 1000 x 1500 | 1500 x 1500 | 3000 x 1500 | 4500 x 1500

Thickness (mm): 1.0 | 3.0

Other dimensions and thicknesses on request

Tolerances:

Thickness: <1 mm = ± 0.1 mm, ≥1 mm = ± 10%

Length: ± 50 mm

Width: ± 50 mm

TECHNICAL DATA

Typical values for a thickness of 1.0 mm

Density	DIN 28090-2	g/cm ³	1,35-1,55
Compressibility	ASTM F 36/J	%	>22
Recovery	ASTM F36/J	%	>50
Tensile strength	DIN 52910	MPa	>4
Tensile strength	ASTM F152	MPa	>5
Stress Resistance (50MPa/175°C/16h)	DIN 52913	MPa	≈
Stress Resistance (50MPa/300°C/16h)	DIN 52913	MPa	≈25
Creep relaxation (21MPa/100°C/22h)	ASTM F38	%	
Specific Leak Rate	DIN 3535/6	mg/(s.m)	≈0,05
Thickness increase after immersion in:	ASTM F146		
• Oil IRM 903, 5h, 150°C		%	<10
• Fuel B, 5h/23°C		%	<15
Flexibility	ASTM F147		
• With grain direction		mm	12
• Cross grain direction		mm	14

All information data are based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behavior in gasket joint. The data may not, therefore, be used to support any warranty claims.

This edition cancels all previous issues. Subject to change without notice.

P-T DIAGRAM

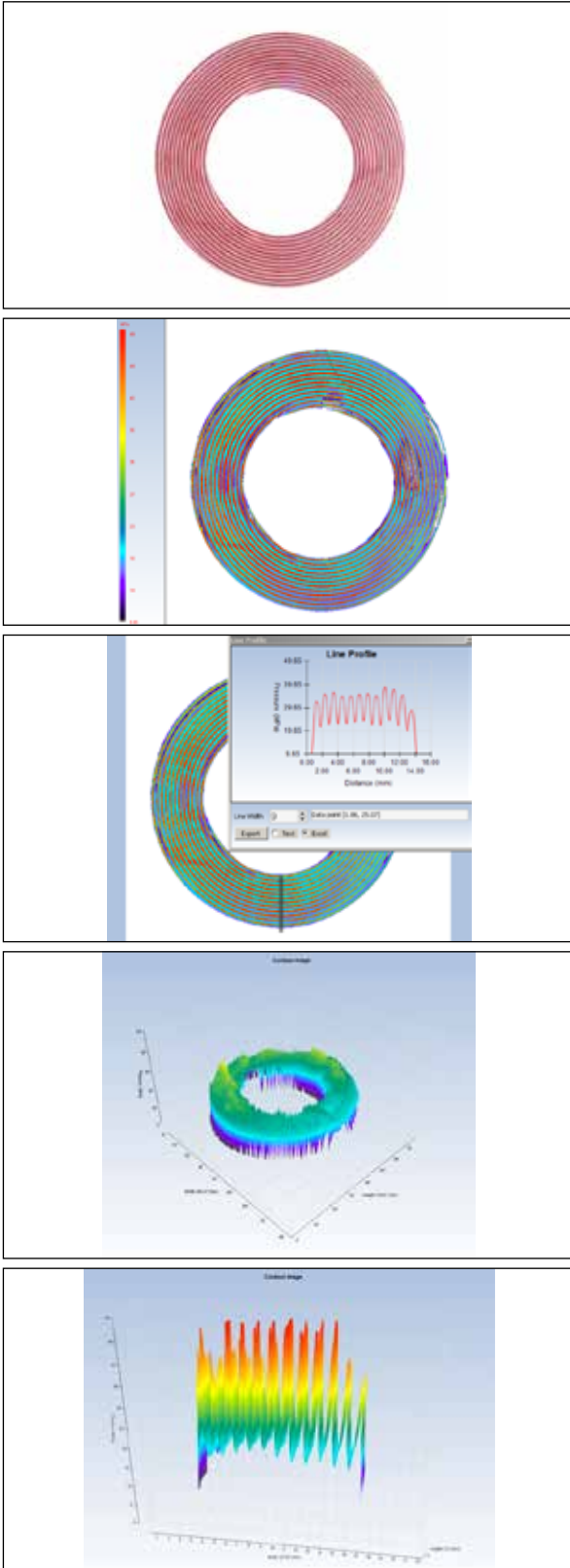
Case study: Sealing on rough surface – performance

Test of distribution of surface stress onn rough flange surface.

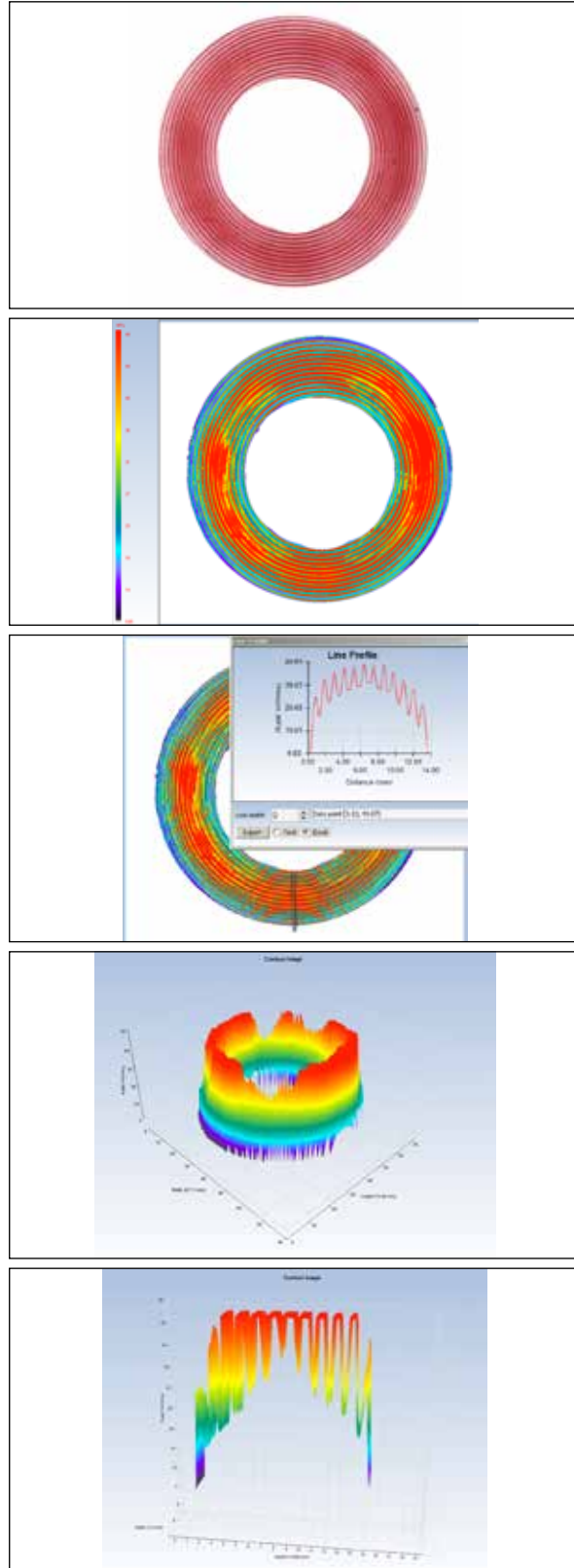
Test conditions:

- Flange EN 1092-1 PN16 DN 25
- Assembly torque: 35Nm
- Equipement: pressure sensitive film – medium grade, TOPAQ analysis software

STANDARD CSF GASKET MATERIAL



HIGH COMPRESIBLE GASKET MATERIAL



DONIT DEVELOPS NEW GASKET MATERIAL WITH HIGH COMPRESSIBILITY.

BA-HC is the new Donit product specially designed for demanding applications where sealability on rough and uneven sealing surfaces is required.

CHALLENGE

One of the leading OEM engine manufacturers was experiencing serious problems in sealing the mission critical part of the engines. Pneumatic tests for tightness showed a high percentage of leaks. The engine manufacturer saw improper sealing as the cause for high operating costs and higher risk associated with placing the engine on the market on time. The DONIT expert team worked on-site in cooperation with the engine manufacturer to intensely analyze the problem and set up a plan for developing a new cost effective and fast solution.

SOLUTION

Our DONIT team discovered that the main cause for leaking was high compressibility, which led to high creep relaxation. In the first phase several solutions were investigated, but all the solutions would drive costs up. With all this in mind, Donit has developed a material that would again be highly compressible, but maintain the initial load on the seal by reducing the cold flow of the gasket. The new BA-HC product, with compressibility properties of over 20%, addressed the assembly load issues, while maintaining a tight seal thanks to its low creep relaxation numbers.

About us:

Donit Tesnit® was founded in 1946 and is today one of the world's leading producers of sealing materials, gasket products and solutions which serving all major markets.

We provide integrated solutions for our customers supply-ing challenging environments and various custom made applications.

With our own infrastructure we have gained extensive knowledge and experience in the sealing business. We produce technologically advanced and more environment-friendly products. Our products are used globally in the chemical-, oil-, automotive-, food-, mechanical- and ship-building industry, in power plants and constructing.

One of our biggest asset is the experience we have in building relationships and assuring quality. This generates trust which is embedded in the our brand. Through sustaining relationships with existing customers and expanding local presence, we align our business with that of our customers—a true partner for success.

Our Markets:

Our headquarter is in Medvode, Slovenia directly in the heart of Europe. From Slovenia we have direct access to a logistic infrastructure providing us possibilities of fast and direct response time. Our production is exported into more than 60 countries on all continents with more than 250 customers world wide.

With our extensive worldwide net of distributors, agents and other customers we provide constant qualitative and tangible solutions around the world. We operate globally in Europe, USA and Asia.

We believe in supreme customer focus. Listening to local demands and turning them into global solutions is what makes us the preferred partner in success stories all over the world.

Us as Partner:

We produce a wide range of high quality products. What makes us different is our genuine interest in what our customers really need. This makes us a true partner in transforming ideas into actions.

Our high quality products enable our customers to lead an environmentally safe business and decrease the possibility of environmental cost. We act responsibly because we are in it for the long haul.

The wide range of products and services make Donit a one-stop shop for our customers' diverse needs. This makes our customers' every day business easier. We advise and consult our customers in order for them to overcome the fear of change and keep their business reliable and safe

Our Personality:

THE CURIOUS GUY WITH EXPERIENCE.

We hav the eagerness of an engineer; we follow the latest trends in the industry, ask questions and listening to our customer. When it is time to execute the wisdom of a seasoned professional takes over. We demonstrate our deep knowledge about the industry in a way that is interesting and to-the-point. We think bigger and know that keeping promises matters more than big words.

Donit – A perfect fit.



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