



TESNIT®

DONIFLEX®

GRAFILIT®

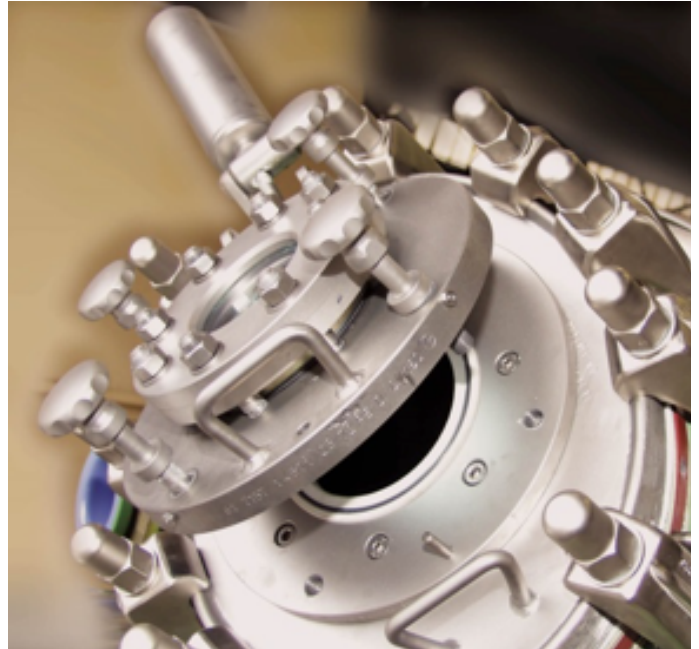
DONIFLON®

MICALIT®

GLASS LINED REACTORS

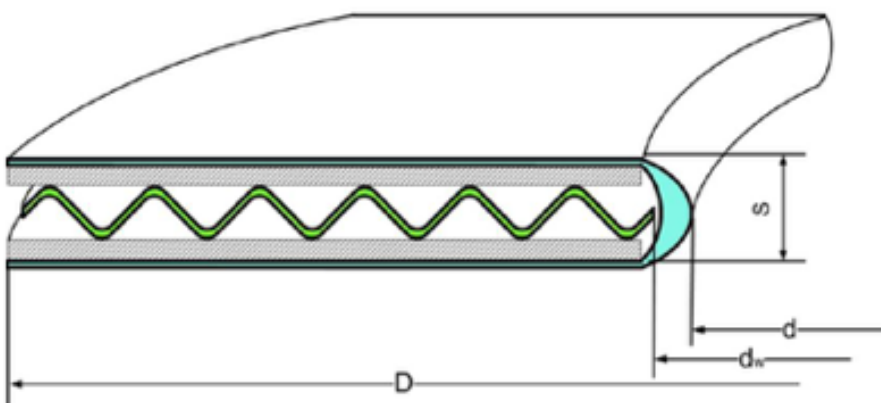
Problem description

- Flanges in glass lined reactors are having uneven sealing surfaces and require special type of gasket in order to seal properly.



Solution

- To create a proper sealing of glass lined reactors we have created specially designed TF34 gasket, a composite of PTFE envelope special high compressible sealing insert.



The sealing insert is made of corrugated stainless steel and two layers of Doniflex® G-LD material. The insert is enveloped with PTFE and open on one side, usually on the outside. High chemical stability of PTFE, good mechanical properties and permanent resistance in atmosphere (humidity, gasses and temperature changes) results in suitability of TF34 system for all type of glass lined reactors and different aggressive chemicals.

It is highly resistant to corrosion and it provides an efficient seal without danger of damaging the glass lined flanges.

DUE TO ITS VERY UNIQUE STRUCTURE THE SYSTEM TF34 MADE A PERFECT FIT FOR GLASS LINED REACTORS.

DONIT® | TF34 GASKET

TF34 gasket is a composite of PTFE envelope and special high compressible sealing insert, highly resistant to corrosion and provides an efficient seal without danger of damaging the glass lined flanges.



PROPERTIES

Composition	Metal base: corrugated metal insertion AISI 304 Soft gasket insertion: Doniflex G-LD (two layers) PTFE envelope
Properties	High chemical stability of PTFE, good mechanical properties, permanent resistance in the atmosphere (humidity, gasses and temperature).
Approvals	TA Luft (VDI 2440), Spark test – pinhole free
Dimensions	PTFE envelope for gaskets with maximum outer diameter up to 500 mm made in one piece, greater diameters welded. No limitations regarding sizes for gaskets with welded envelopes.

CHARACTERISTICS

	TF34 soft layer insert					
	with Doniflex®		with Grafilit®		with Tesnit® BA-U	
Compressibility ASTM F36; 20° C	32.5 %		44.2 %		16.4 %	
Recovery ASTM F36; 20° C	27.6 %		23.7 %		46.6 %	
Compression moduls DIN 28090-2	$\epsilon_{KSW/20\text{ °C}}$	$\epsilon_{WSW/150\text{ °C}}$	$\epsilon_{KSW/20\text{ °C}}$	$\epsilon_{WSW/150\text{ °C}}$	$\epsilon_{KSW/20\text{ °C}}$	$\epsilon_{WSW/150\text{ °C}}$
	28.3 %	8.5 %	37.9 %	7.7 %	16.4 %	16.6 %
Creep relaxation DIN 28090-2	$\epsilon_{KRW/20\text{ °C}}$	$\epsilon_{WRW/150\text{ °C}}$	$\epsilon_{KRW/20\text{ °C}}$	$\epsilon_{WRW/150\text{ °C}}$	$\epsilon_{KRW/20\text{ °C}}$	$\epsilon_{WRW/150\text{ °C}}$
	2.6 %	1.5 %	3.2 %	2.6 %	4.0 %	1.7 %

Slovenia

DONIT TESNIT, D.O.O.

Cesta komandanta Staneta 38, 1215
Medvode, Slovenia
Phone: +386 (0)1 582 33 00
E-mail: info@donit.eu

China

SUZHOU DONIT SEALING MATERIALS

Import and Export Co., Ltd.
No. 8 Suzhou Avenue West,
Bank of China Building, Room 1904,
SIP, 215021, P.R. China
Phone: +86 (0)512 659 535 29
E-mail: sales.suzhou@donit.eu

India

DONIT TESNIT INDIA

C-406, Mantri Lavendula Mulshi
Road,
Bavdan Khurd, Pune - 411 021, India
Phone: +91 20 6520 7558
E-mail: sales.india@donit.eu

Middle East

DONIT TESNIT MIDDLE EAST

SM - Office- F1- 216B Ajman Free
Zone Authority,
Ajman, United Arab Emirates
E-mail: sales.middleeast@donit.eu

North America

DONIT TESNIT NORTH AMERICA

Donit Tesnit North America, LLC
3404 Oakcliffe Road Suite c3/c4,
Doraville, Georgia 30340
E-mail: sales.northamerica@donit.eu

Latin America

DONIT TESNIT LATIN AMERICA

E-mail: sales.latinamerica@donit.eu

Slovenia

DONIT TESNIT, D.O.O.

Donit Industrial Sealing Solutions
Paradiž 4, 8210 Trebnje, Slovenia
Phone: +386 (0)8 205 50 44
E-mail: salesgaskets@donit.eu

Belgium

DISS-EUROPE BVBA

Donit Industrial Sealing Solutions
Toekomstlaan 34,
2200 Herentals, Belgium
Phone: +32 (0)14 302 100
E-mail: sales@disseurope.be

