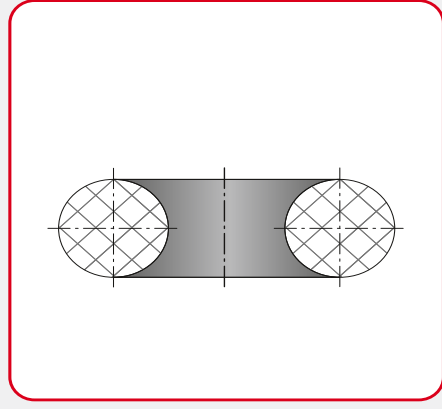




BTSSEALS[®]

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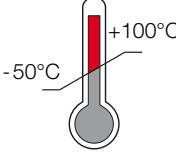
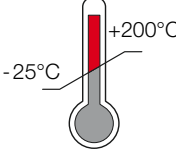
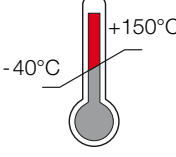
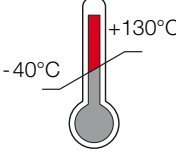
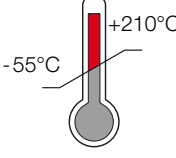
O-RINGS

O-Rings

Compounds for O-Rings

Hardness 70° - 90° Shore A (IRHD)

VMQ: 60° - 80° Shore A (IRHD)

	Restistant against	Characteristics	Temperature
NBR	Mineral oil and grease, vegetable and animal oils, hydraulic oil, oil + water emulsions, fuel, diesel oil, fuel oil, hypoid oil (180°C max.) butane, ethane, propane, water and air (+90°C max.), weak acids and bases, glycol (antifreeze fluids in automotive applicatons)	Good swelling behavior in mentioned media, very good compression set, wide temperature range. NOT APPLICABLE in aromatic and chlorinated hydrocarbons, brake fluids (glycol based in automotive applications), at presence of ozone.	
FKM	All oils and greases (mentioned in NBR) and aromatic and chlorinated hydrocarbons, air, acids and bases at high temperatures.	Good swelling and heat-resistance even in hypoidoil above +120°C. NOT APPLICABLE with acetone, amines, alkali, brake fluids (glycolbased), acetic acid, hot water and steam.	
EPDM	Automotive brake fluids (up to +150°C), hot water and steam, suds, many acids, alcohol, silicone-oil, HSC- and HSD-fluids.	Excellent thermic stability, good compression set, very good performance in ozone and weather, good aging resistance. NOT APPLICABLE with mineraloil and hydro-carbons.	
HNBR	Same resistance as NBR, additional: hot water up to +100°C, hypoid-gearoil up to +130°C	Very good mechanical properties and abrasion-resistance, good in ozone and weather proof. NOT APPLICABLE with aromatic and chlorinated hydrocarbons, brake fluids (automotive).	
VMQ	Hot air, oxygen, water-based agents, ammonia, limited suitable with automotive brakefluid, alcohol, butan, propan, fuel, hot water (+100°C)	Extremly good thermic characteristics, particularly with air and oxygen. Good ozone-resistance, best dielectric strength, physiologically harmless. Not resistant against concentrated acids and alkali, water and steam over 100°C. OXYGEN EXCLUSION DESTROYS the compound.	

Other materials like ACM, CR, FFKM, IIR, SBR or special types, according to customer requirements are available on request. All O-Rings can be treated by talcumpowder, molycot or siliconoil-sprays; PTFE-coating is also possible.

Standards

O-Rings are produced according to highest standards. If not stated otherwise, conformity to ISO 3601-1:2012 Class B as well as ISO 3601-3:2005 are given. BT-Seals also offers O-Rings according to the following standards:

- DIN 3771 / ISO 3601-1
- AS568A/BS
- PN02 9280
- PN02 9281
- MSZ
- PN-60/PN-64/PN-90



Clearances and admissions

	Description	Applications
DVGW	Deutscher Verein des Gas- und Wasserfaches	Sealing elements for gas applications
FDA	Food and Drug Administration	Food and pharmaceutical applications
KTW	Kunststoffe im Trinkwasser	Plastics and elastomers for drinking water applications
WRAS	Water Regulations Advisory Scheme	Plastics in direct contact with drinking water

Quality assurance

Keeping the quality-level of the O-Rings has the highest priority at BT-Seals. The actual valid quality insurance-system does not allow any exception of the fixed production flowchart and is in accordance with ISO9001. The quality management for automotive applications ISO/TS 16949 is fully integrated in the production process and ensures stable cp/cpk-values of 1,33 and ppk 1,67 PPAP-Level 3. The excellent equipment in the lab (with SIT-certification) allows the extensive control (i.d., cross section and surface) of each single O-Ring based on a quality insurance contract with the customer.

References





Sales

BT Seals Austria
Inkustrasse 1-7/8
A-3400 Klosterneuburg

Tel +43 2243 24332
Fax +43 2243 25741
info@btseals.com
sales.at@btseals.com

BT Seals Hungária
Csokonai utca 18
H-8252 Balatonszepezd

Tel +36 87 568048
sales.hu@btseals.com
quality.hu@btseals.com

BT Seals Czech Republic
Modrínova 351
CZ-37361 Hrdejevica

Tel +420 387 221335
sales.cz@btseals.com

Production

BT Seals Hungária
Somfalvi út 21
H-9400 Sopron

Tel +36 99 523840
production@btseals.com

BT Seals products worldwide



www.btseals.com