

Material Table

based on EN 12756 (DIN 24960)

SEALS RINGS (Item.1 and 2)

CARBIDE

SSIC solid, pressureless sintered, fine-grained	Q10
SSIC shrunked, pressureless sintered, fine-grained	Q12
SiSiC solid, reaction bonded	Q20
SiSiC shrunked, reaction bonded	Q22
C-SiC solid, carbon surface silicated	Q40
SSIC-W solid, pressureless sintered, long grained	Q50
SSIC-G solid, pressureless sintered, graphit inclusions	Q60
TC solid, Co-binder	U10
TC brazed, Co-binder	U11
TC shrunked, Co-binder	U12
TC solid, Ni-binder	U20
TC brazed, Ni-binder	U21
TC shrunked, Ni-binder	U22
TC solid, NiCr-binder	U30
TC brazed, NiCr-binder	U31
TC shrunked, NiCrMo-binder	U32

METALOXIDE

AL2O3, 99%	V10
AL2O3, 95%	V20

CARBONE GRAPHITE

Carbon solid, metal impregnated	A10
Carbon shrunked, metal impregnated	A12
Carbon solid, resin impregnated	B10
Carbon shrunked, resin impregnated	B12
Carbon resin bonded	B20
Carbon solid, special impregnated	C10
Carbon shrunked, special impregnated	C12
Carbon massiv, suitable for dry running	C20

METAL

Cr-Stainless steel; AISI431, 1.4057	E
CrNi-Stainless steel; AISI304, 1.4301	F
CrNiMo-Stainless steel; AISI316, 1.4404,14401	G1
CrNiMo-Stainless steel; AISI316Ti, 1.4571	G2
CrNiMo-Stainless steel; AISI329A, 1.4462	G3
Special CrMo cast iron	S
Bronze	N
Hastelloy®C-276, 2.4819	M

COETED MATERIAL

SSIC-Q10 coated with diamond	Q70
Stainless steel coated with Cr2O3	W
Stainless steel coated with TC	U40
Stellite coated on AIS316	K

PTFE

PTFE glassfibre reinforced	Y1
PTFE carbon filled	Y2

SECONDARY COMPONENTS (Item.3)

ELASTOMERS

NBR, Nitril	P
EPDM, Ethylen-Propylen,	E
EPDM, Ethylen-Propylen-FDA	E1
EPDM, Ethylen-Propylen, FDA , USP , KTW , 3A , ...	E2
FKM, Fluorcarbon, z. B. Viton® A	V
FKM, special-Fluorcarbon, e.g. Viton® B, GF, GLT	V1
FKM, Fluorcarbon, z. B. Viton®, FDA	V2
MVQ, Silicone	S
CR, Chloroprene	N
FFKM, Perfluorcarbone, z..B. Kalrez® 6375	K1
FFKM, Perfluorcarbone for high temperature, e.g. Kalrez® 4079	K2
FFKM, Perfluorcarbone for food an pharma, e.g. Kalrez® 6221(white),6230(black)	K3
TTV, FKM double PTFE wrapped	M1
TTE, EPDM double wrapped	M2
FEP-S, MVQ FEP wrapped	M4
FEP-V, FKM FEP wrapped	M5
HNBR, Hydrogenated Nitrile	X1
XFKM, FEPM, Tetrafluor-Ethylen-Propylene e.g. Fluoraz®, Aflas®	X2

NON-ELASTOMERES

Pure Graphite	G
Synthetic Aramid bases fiber, asbestosfree	Y
PTFE pure	T
PTFE glass fibre reinforced	T1

CONSTRUCTION MATERIALS (Item.4 and 5)

Cr-Stainless steel; AISI431, 1.4057	E
CrNi-Stainless steel; AISI304, 1.4310, 1.4301	F
CrNiMo-Stainless steel; AISI316, 1.4404,14401	G1
CrNiMo-Stainless steel; AISI316Ti, 1.4571	G2
CrNiMo-Stainless steel; AISI329A, 1.4462	G3
CrNiMo-Stainless steel; AISI316L, 1.4435	G4
Bronze	N
Hastelloy®C-4, 2.4610	M1
Hastelloy®B-2, 2.4617	M2
Hastelloy®C-276, 2.4819	M3
Carpenter®20, 2.4660	M4
Carpenter®42	M5
AM350, special alloy	M6
Titanium grade 2	T