

Table of materials








Material code	Description	
¹⁾ EN 12756	EagleBurgmann	
Face materials (Item 1/2)		
Synthetic carbons		
▶ A	Buko 03	Carbon graphite antimony impregnated
▶ B	Buko 1	Carbon graphite resin impregnated, approved for foodstuffs
B3	Buko 02	Carbon graphite resin impregnated
B5	Buko 34	Carbon, resin bonded
C	Buko 22	Electrographite antimony impregnated
Metals		
▶ E	Bume 20	Cr steel
G	Bume 17	CrNiMo steel
▶ S	Bume 5	Special cast CrMo steel
T41	Bube 281	1.4462 DLC-coated
Carbides		
U = Tungsten carbides		
▶ U1	Buka 1 brazed	Tungsten carbide, Co-binder
▶ U2	Buka 16 solid	Tungsten carbide, Ni-binder
▶ U22	Buka 16 shrunk-in	Tungsten carbide, Ni-binder
U3	Buka 15 solid	Tungsten carbide, NiCrMo-binder
U37	Buka 15 shrunk-in	Tungsten carbide, NiCrMo-binder
U7	Buka 17 solid	Tungsten carbide, binder-free
Q = Silicon carbides		
▶ Q1	Buka 22 solid	SiC, silicon carbide, sintered pressureless
▶ Q12	Buka 22 shrunk-in	SiC, sintered pressureless
▶ Q2	Buka 20 solid	SiC-Si, reaction bonded
▶ Q22	Buka 20 shrunk-in	SiC-Si, reaction bonded
Q3	Buka 30 solid	SiC-C-Si, carbon silicon impr.
Q32	Buka 30 shrunk-in	SiC-C-Si, carbon silicon impr.
Q6	Buka 32 solid	SiC-C, SiC sintered pressureless with carbon
Q4	Buka 24 solid	C-SiC, carbon surface silicated
Q19	Buka 221	SiC, DLC-coated
Q15	Buka 225	SiC, DiamondFace
Metal oxides (Ceramics)		
V	Buke 5	Al-Oxide > 99 %
V2	Buke 3	Al-Oxide > 96 %
X	Buke 8	Steatite (Magnesia silicate)
Plastics		
▶ Y1	Buku 2	PTFE glassfibre reinforced
Y2	Buku 3	PTFE carbon reinforced

Material code	Description	
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Secondary seal components (Item 3)		
Elastomers, not wrapped		
▶ E	E	Ethylene propylene rubber (EPDM ²⁾) e. g. Nordel [®]
▶ K	K	Perfluorocarbon rubber (FFKM ²⁾) e. g. Kalrez [®] , Chemraz [®] , Simriz [®]
N	N	Chloroprene rubber (CR ²⁾) e. g. Neopren [®]
▶ P	P	Nitrile-butadiene-rubber (NBR ²⁾) e. g. Perbunan [®]
S	S	Silicone rubber (VMQ ²⁾) e. g. Silopren [®]
▶ V	V	Fluorocarbon rubber (FKM ²⁾) e. g. Viton [®]
X	X4	Hydrogenated Nitrile-rubber (HNBR ²⁾)
X	X5	Tetrafluoroethylene propylene rubber (FEPM ²⁾) e. g. Aflas [®] , Fluoraz [®]
Elastomers, wrapped		
▶ M1	TTV	FKM, double PTFE wrapped
▶ M2	TTE	EPDM, double PTFE wrapped
M3	TTS	VMQ, double PTFE wrapped
M4	TTN	CR, double PTFE wrapped
M5	FEP	FKM, FEP wrapped
M7	TTV/T	FKM double PTFE wrapped/PTFE solid
Differing materials		
U1	K/T	Perfluorocarbon rubber/PTFE
Non-Elastomers		
G	Statotherm	Pure graphite
T	T	PTFE (Polytetrafluoroethylene)
T2	T2	PTFE glass fiber reinforced
T3	T3	PTFE carbon reinforced
T12	T12	PTFE carbon-graphite reinforced
Y1	Burasil-U	Plastic fiber/Aramid

Material code	Description	
¹⁾ EN 12756	EagleBurgmann	
Spring and construction materials (Item 4/5)		
Spring materials		
▶ G	1.4571	CrNiMo steel
▶ M	2.4610	Hastelloy [®] C-4 Nickel-base alloy
Construction materials		
D	St	C steel
▶ E	1.4122	Cr steel
F	1.4301	CrNi steel
F	1.4308	CrNi cast steel
F1	1.4313	Special cast CrNi steel
▶ G	1.4401	CrNiMo steel
▶ G	1.4404	CrNiMo steel
▶ G	1.4571	CrNiMo steel
G	1.4581	CrNiMo cast steel
▶ G1	1.4462	CrNiMo steel – Duplex
G2	1.4439	CrNiMo steel
G3	1.4539	NiCrMo steel
▶ G4	UNSS32760-Nor	CrNiMoCu steel - Superduplex
M = Nickel-base alloy		
▶ M	2.4610	Hastelloy [®] C-4
M1	2.4617	Hastelloy [®] B-2
M3	2.4660	Carpenter [®] 20 Cb3
M4	2.4375	Monel [®] alloy K500
M5	2.4819	Hastelloy [®] C-276
M6	2.4668	Inconel [®] 718
T = Other materials		
T1	1.4505	CrNiMoCuNb steel
T2	3.7035	Pure titanium
T3	2.4856	Inconel [®] 625
T4	1.3917	Carpenter [®] 42
T5	1.4876	Incoloy [®] 800

▶ Preferred materials
 1) Standard following EN 12756, Dec. 2000
 2) Abbreviations acc. to ISO 1629, Nov. 2004

Color code

	Shaft		Stationary seal parts		Rotary seal parts
	Housing, installation chamber		Stationary seal faces		Rotating seal faces
	Elastomers				