

Mechanical Seal, Table of Materials

Material Designations acc. to DIN EN 12756 (and ASTM)

Places 1 and 2		Place 3		Places 4 and 5	
DIN EN 12756	Rotating and Fixed parts	DIN EN 12756	Elastomers, gaskets, bellows	DIN EN 12756	Springs and other components
	<u>CARBON with various contents</u>		<u>ELASTOMERS</u>		<u>METALS CrNiMo [G]</u>
A	Carbon, metal impregnated	[E]	EP rubber (EPR)	G1	CrNiMo steel 1.4571 (316 Ti)
[B]	Carbon, resin impregnated	[P]	Nitrile rubber (NBR)	G5	CrNiMo steel 1.4539 (904L)
[C]	Carbon, glass impregnated, like Z type	S	Silicone rubber (MVQ)	G6	CrNiMo steel 1.4435 (316L)
		[V]	Fluorine rubber (FPM)	H	Metal carbide coated
		M1	Fluoroelastomers, PTFE coated, FEP	K	Hard metal coated, corrosion resistant (heavy coating against wear)
	<u>Metal CARBIDES</u>		<u>NON - ELASTOMERS</u>		<u>High-degree nickel ALLOYS</u>
[Q1]	Silicon carbide, SiC	G	Pure graphite	M1	Hastelloy B2 2.4617
Q2	Silicon carbide, twin, Si-SiC	[T]	PTFE	M2	Hastelloy C4 2.4610
U1	Tungsten carbide, cobalt-bonded				
U2	Tungsten carbide, nickel-bonded	Y (F)	Gaskets asbestos free like AFM	N1	<u>BRONZE & zinc free materials</u>
	<u>CERAMICS</u>				
[V]	Al-Oxide 100% (Allumine)			T1	<u>TITANIUM</u> 3.7035

La tabella dei materiali per tenute mecc. comprende le facce di scivolo (1 e 2), gli elastomeri / guarnizioni (3) e le armature (4 e 5).

Nelle facce di scivolo ci sono CARBONI, CARBURI tipo Carburo di Tungsteno o Widia (WC) e le CERAMICHE.

Le guarnizioni possono essere ELASTOMERI e NON ELASTOMERI.

Le parti metalliche possono essere METALLI (PURI) o LEGHE.

The table of materials for mech seals includes the faces of sliding (1 and 2), elastomers / gaskets (3) and the hardware (4 and 5)

In the sliding faces there are CARBONS, CARBIDES like Tungsten Carbide or Widia (WC) and the CERAMICS.

Gaskets can be ELASTOMERS and NOT ELASTOMERS.

The metallics parts can be (PURE) METALS or ALLOYS.

EXAMPLE. Q1Q1VGG =SiC / SiC (Pos. 1-2) - FPM (Pos. 3) - 304SS / 304SS (Pos. 4-5)

xylem