

机械密封常用材料及适用范围

Application of common materials for reactor mechanical seals

旋转环、静止环材料 Materials for rotary and stationary ring	代号 Code	适用范围 Scope of application
石墨浸渍酚醛树脂 Graphite impregnated phenolic resin	B _q	酸、油、除硝酸等强氧化性酸外 Acid, oil, except strong oxidizing acids, such as nitric acid.
石墨浸渍呋喃树脂 Graphite impregnated furan resin	B _k	酸、碱、油类、除硝酸等强氧化性酸外 Acid, base, oil, except strong oxidizing acids, such as nitric acid.
石墨浸渍环氧树脂 Graphite impregnated epoxy resin	B _h	弱酸、碱、除硝酸等强氧化性酸外 Acid, base, oil, except strong oxidizing acids, such as nitric acid.
石墨浸渍锑合金 Graphite impregnated antimony alloy	A _t	盐水、轻油、乙苯、苯乙烯、溶剂等 Brine, light oil, ethylbenzene, styrene & Solvent etc.
铬镍钢 Chrome-nickel steel	F	酸、碱、除盐酸、氢氟酸外 Acid, base, except hydrochloric acid and hydrofluoric acid
金属表面熔焊镍基合金 Surface layer welded with nickel alloy	I _h	弱酸、弱碱、醇、油、液态烃等 Weak acid, Weak base, Alcohol, Oil & liquid hydrocarbon etc.
金属表面熔焊钴基合金 Surface layer welded with cobalt alloy	I _g	弱酸、弱碱、醇、油、液态烃等 Weak acid, Weak base, Alcohol, Oil & liquid hydrocarbon etc.
金属表面喷涂 Surface metal spray	J	油、乙苯、苯乙烯、溶剂、丙酮等 Oil, ethylbenzene, styrene, Solvent & Acetone etc.
氮化硅 Silicon nitride	Q	酸、碱、有机物等 Acid, base & Organics etc.
镍硬合金 Nickel-based tungsten carbide	U ₁	油、酸、碱、有机物等 Oil, acid, base & Organics etc.
钴硬合金 Cobalt-based tungsten carbide	U ₂	油、弱酸、碱、有机物等 Oil, weak acid, base & Organics etc.
无压烧结碳化硅 SSIC	O ₁	氢氟酸、有机酸、碱、有机物等 hydrofluoric, Organic acid, base & organics etc
反应烧结碳化硅 SIC	O ₂	弱酸、碱、有机物等 Organic acid, base & organics etc.
氧化铝 Aluminium oxide (Ceramics)	V	除氢氟酸、高浓度酸外 Not suitable for hydrofluoric and high concentration acid.
增强（填充玻纤）聚四氟乙烯 Reinforced PTFE filled with glass fiber	Y _t	氧化性酸、有机物等 Oxidized acids, Organics etc.
增强（填充石墨）聚四氟乙烯 Reinforced PTFE filled with graphite	Y _h	酸、有机物等 Acid, organics etc.

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Please provide customer requirement questionnaire
- 2、本公司提供相应的方案图供双方确认，方案实施以确认图为准。
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机械密封辅助密封圈材料、结构型式和适用范围JB/T7757.2-2006

Auxiliary sealing ring, structure form and scope of application for Mechanical seal JB/T7757.2-2006

辅助密封圈材料及结构型式 Materials for auxiliary sealing ring	代号 Code	适用范围 Scope of application
丁腈橡胶O形圈 Nitrile rubber O ring	P	油、水、醇等 Oil, Water and alcohol etc.
氟橡胶O形圈 Viton O ring	V	耐弱酸 Weak acid
四丙氟橡胶O形圈 Aflas O ring	V1	耐弱酸 Weak acid
硅橡胶O形圈 Silicon rubber O ring	S	醇、碱溶液辅助密封圈材料及结构型式代号适用范围 Alcohol, aqueous alkali etc.
氯丁橡胶O形圈 Silicon rubber O ring	N	无机酸、碱溶液 Inorganic acid, aqueous alkali
乙丙橡胶O形圈 EPR O ring	E	氨水、碱溶液 Ammonium hydroxide, aqueous alkali
聚四氟乙烯O形圈 PTFE O ring	T1	各种腐蚀性介质，溶剂 Various kinds of corrosive medium, solvent
聚四氟乙烯V形圈 PTFE V ring	T2	各种腐蚀性介质，溶剂 Various kinds of corrosive medium, solvent
聚四氟乙烯棒形圈 PTFE Tenon ring	T3	各种腐蚀性介质，溶剂 Various kinds of corrosive medium, solvent
橡胶包覆聚四氟乙烯O形圈（FEP） FEP	M1	各种腐蚀性介质，溶剂 Various kinds of corrosive medium, solvent
全氟橡胶 Perfluor rubber (FFKM)	K	各种腐蚀性介质，溶剂 Various kinds of corrosive medium, solvent
耐氯气O形圈 Chlorine resistance O ring	X1	耐氯气专用 Special for chlorine
耐高温O形圈 High temperature resistance O ring	X2	200℃以下，耐腐蚀性能通氟橡胶 Below 200 °C, Corrosive resistance is almost like viton

机械密封弹簧和其他结构材料及适用范围
Springs, other frameworks and scope of application for mechanical seal

弹簧和其他结构材料 Spring and other frameworks	代号 Code	适用范围 Scope of application
碳钢 Carbon steel	D	一般介质 Common medium
铬镍钢（304、321） Chromium-Nickel Steel (304, 321)	F ₁	除盐酸、氢氟酸外的介质 Medium excludes hydrochloric acid and hydrofluoric acid
铬镍钢钼钢（316） Stainless steel(316)	F ₂	除盐酸、氢氟酸外的介质 Medium excludes hydrochloric acid and hydrofluoric acid
铬镍钢钼钢（316L） Stainless steel(316L)	F ₃	除盐酸、氢氟酸外的介质 Medium excludes hydrochloric acid and hydrofluoric acid
双相不锈钢（2205） Duplex stainless steel (2205)	F5	高氯离子介质 High chloridion medium
2Cr13 2Cr13	E1	一般介质 Common medium
201不锈钢 201 Stainless steel	X2	一般介质 Common medium
高镍钢（20） High nickel steel (20)	M1	各种腐蚀性介质，氢氟酸 Various kinds of corrosive medium, hydrofluoric acid
高镍钢（蒙乃尔） High nickel steel (Monel)	M2	各种腐蚀性介质，氢氟酸 Various kinds of corrosive medium, hydrofluoric acid
高镍钢（哈氏B、C） High nickel steel (Hastelloy B, C)	M3	各种腐蚀性介质，氢氟酸 Various kinds of corrosive medium, hydrofluoric acid
钛及钛合金 Titanium and titanium alloy	T	各种腐蚀性介质 Various kinds of corrosive medium
搪玻璃	X1	各种腐蚀性介质 Various kinds of corrosive medium
锆材 Zirconium	X3	
PTFE	X4	各种腐蚀性介质 Various kinds of corrosive medium
其他材料 Other materials	X	各种腐蚀性介质 Various kinds of corrosive medium