

# Chenming Seal-Steel Materials

MAT. NO.	Compound	Working TEM(°C)	Corrosion Resistance	Recommended Applications
SS304	Cr19Ni10Fe71	-100°C~500°C	1	304 stainless steel, good corrosion resistance, heat resistance, major used in food industry, not resistant to salt, seawater, acid and alkali and oxidant.
SS316L	Cr17Ni12Mo2Fe69	-120°C~600°C	3	316L stainless steel, better corrosion resistance, commonly used food grade, resistant to salt, seawater, medium acid and alkali and oxidant.
SS2205	Cr22Ni5Mo3Fe67	-180°C~450°C	6	2205 stainless steel has higher yield strength and hardness than SS304/SS316L, and better corrosion resistance. Major used in petroleum and natural gas industry.
17-7PH	Cr17Ni7Al1Fe75	-200°C~450°C	6	17-7PH exhibits better retention of mechanical properties at temperatures over 316°C than 300 series stainless steel.
Hastelloy C276	Ni59Mo16Cr15Fe6W4	-180°C~400°C	10	Hastelloy C276 Steel, nickel-molybdenum-chromium corrosion-resistant alloy, resistant to pitting corrosion, crevice corrosion and stress corrosion cracking, resistant to chlorine, hypochlorite and chlorine dioxide solution corrosion. Commonly used in chemical equipment, flue gas desulfurization and denitrification, paper industry, aerospace applications, and acidic environments.

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Inconel 718	Ni54Cr20Fe17Nb5Mo3Ti1	-200°C~650°C	15	Inconel 718 Steel, nickel-chromium-niobium-molybdenum alloy, high strength, corrosion resistance and low temperature resistance, commonly used in liquid fuel rockets, low temperature engineering, nuclear engineering, acid environment.
Elgiloy	Co40Cr20Fe16Ni15Mo7Mn2	-180°C~450°C	20	Elgiloy Steel, a non-magnetic cobalt-chromium-nickel-molybdenum alloy with excellent corrosion resistance and high fatigue strength, is commonly used in rocket engines, oil and gas extraction, medical and space fields.