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## **Technical Datasheet**

湖南富顺金属材料有限公司

HUNAN FUSHUN METAIL CO., LTD.

### 09Cr17Ni5Mo3N UNS S35000 633 Precipitation-hardening Stainless Steel

633 is a precipitation-hardened stainless steel that can be heat treated at low temperatures to obtain different grades of strength as needed for applications requiring high strength and excellent weldability and corrosion resistance.

#### Standard and Grade:

CN	GB/T 20878-2007	09Cr17Ni5Mo3N
		S51750
US	ASTM A693-2003	S35000, 633
EN	EN 10088-1:2005	(1.4457)

#### **Chemical Component**

С	0.07~0.11	Cr	16.0~17.0	Ni	4.00~5.00
Si	≤0.50	Р	≤0.040	Мо	2.50~3.20
Mn	0.50~1.25	S	≤0.030	Ν	0.07~0.13

#### **Material characteristics**

The corrosion resistance is better than other hardenable martensitic stainless steels and is comparable to 316 type stainless steels in most media.

②Strength. After heat treatment according to the national standard specifications, the hardness of  $\geq$  36HRC or  $\geq$  42HRC can be obtained.

③ Easier to weld than other precipitation-hardenable stainless steels, which can be welded by conventional inert gas methods.

### Application

633 is typically used in applications below 1000°F (537°C) where strength and good corrosion



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resistance are required, such as for gas turbine compressor components (blades, discs, rotors and shafts) and similar components requiring high strength at room and medium temperatures; precision seals, couplings for semiconductor processing equipment and high vacuum systems; and edge-welded bellows applications requiring high strength in aerospace.



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