

FERRITIC AND MARTENSITIC STEELS, INCL. PRECIPITATION HARDENING STEELS

Available Product Shapes

[Long Products](#)
[Open Die Forgings](#)

Product Description

Components in the aerospace industry, e.g. high strength screws, bolts and landing gear components.

Properties

- Precipitation hardenable
- Stainless steel
- Stress corrosion resistance
- High strength up to 315°C (600°F)

Applications

- > Comp. for Chemical plants (incl. LNG, FGD, Urea, LDPE, etc.)
- > Medical
- > Other Oil and Gas + CPI comps.
- > Turbine and Engine Parts (Aerosp)
- > Comps. for Food processing and Animal Feed
- > Medical Instruments & Implants
- > Pumps and High Pressure Components
- > Valves and Actuators
- > Food processing Industry
- > Other Aerospace Comps.
- > Structural parts (Aerosp)

Material designation		Standards	
1.4534	SEL	3357	EN ISO
S13800	UNS	3358	
X3CrNiMoAl13-8-2	EN	A564	ASTM
EZ3CNDA 13-8		5629	AMS
13-8 Mo	Market grade		

Chemical composition

C	Si	Mn	Cr	Mo	Ni	Al
0.03	≤ 0,08	≤ 0,08	12.70	2.20	8.10	1.10

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.5 / 5.833	11 / 6.111	11.5 / 6.389	12 / 6.667

For more information see www.voestalpine.com/boehler-edelstahl

