

CREEP RESISTANT STEELS

Available Product Shapes

Plates

Product Description

Aviation and aerospace industries, nuclear, turbine and general mechanical engineering.

Properties

Creep resistant martensitic precipitation hardenable Cr-Ni-Mo-Cu-steel with high strength and good toughness. Usual upper temperature limit for continuous operating at 370°C. BÖHLER T670 EXTRA is being refined by the remelting process (ESR/VAR).

Material designation		Standards	
1.4594	SEL	S143	BS
S45000	UNS	S144	
X5CrNiMoCuNb14-5	EN		
520B 14-5 PH	Market grade		

Chemical composition

C	Si	Mn	Cr	Mo	Ni	Cu	Nb
0.05	0.25	0.40	14.00	1.50	5.20	1.60	0.25

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	11.4 / 6.333	11.8 / 6.556	12.4 / 6.889

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

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@boehler-edelstahl.at

www.voestalpine.com/boehler-edelstahl

voestalpine

ONE STEP AHEAD.