

Material data sheet

Material Number	~1.4542; ~1.4548
Country	U.S.A.
Designations	630 (AISI); S17400 (AISI); S17400 (UNS); A 564 (630) (ASTM); A 693 (630) (ASTM); A 705 (630) (ASTM); SA 564 (630) (ASME); SA 705 (630) (ASME); 5604E (AMS); 5622D (AMS); 5643P (AMS); 17-4 PH (Spec)

Standards	ASTM A 564-02	Hot-rolled and cold-finished age-hardening stainless and heat-resisting steel bars and shapes
	ASTM A 693-02	Precipitation-hardening stainless and heat-resisting steel plate, sheet and strip
	ASTM A 705-00	Age-hardening stainless and heat-resisting steel forgings
Steelgroup	Stainless and heat-resisting steels	

Chemical composition

Element	min/max	Others	Footnote
C	<=0.07		
Si	<=1.00		
Mn	<=1.00		
P	<=0.040		
S	<=0.030		
Cr	15.00 - 17.75		
Cu	3.00 - 5.00		
Nb	0.150 - 0.450		62)
Ni	3.00 - 5.00		

62) Nb + Ta