



Hatip Mah. 1708. Sk. D Blok No. :6 Çorlu/ TEKİRDAĞ <u>info@bhmetal.com.tr</u> www.bhmetal.com.tr

Grade	Туре	AISI	Precipitation Hardening
1.4545	15-5 PH		Stainless Steel

Steel Properties

15-5 PH is a high-alloy, stainless, precipitation hardened steel with martensitic structure. It is characterized by excellent mechanical properties - strength and hardness, and at the same time excellent corrosion resistance.

Chemical Composition (15-5 PH)

Ī	C %	Р%	Si %	Mn %	S %	Cr %	Mo %	Ni %	Cu %	Nb %
ĺ	0,07	0,03	1,00	1,00	0,02	14,00 -	0,50	3,50 –	2,50 -	0,45
	max.	max.	max.	max.	max.	15,50	max.	5,50	4,50	max.

Mechanical Properties

Condition	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HB]
H900	1310	1172	10	388/444
H1150	931	724	16	277/352

Suitable For

Type 15-5 PH finds extensive use in aircraft and missile construction ranging from parts for instrumentation to landing gear components. Type 15-5 PH is also employed for valve parts, fittings, fasteners, shafts and gears and chemical process equipment and nuclear reactor components.

Remarks

Type 15-5 PH is delivered most often after heat improvement – in H900, H925, H1025, H1075, H1100, H1150M and H1150DBL conditions.

Specification

1.4545, Type 15-5 PH