SUSTAINABLE STAINLESS STEEL



1.4542 17-4PH

X5CrNiCuNb16-4	%C	%Si	%Mn	%P	% S	%Cr	%Cu	%Mo	%Nb	%Ni
	-	ı	1	-	-	15.0	3.0	1	5*C	3.0
	0.07	0.70	1.50	0.040	0.030	17.0	5.0	0.60	0.45	5.0

STEEL PROPERTIES

1.4542 17-4 PH (precipitation hardening) stainless steel, is a versatile and high-strength stainless steel with excellent corrosion resistance. It is often used in applications that require a combination of good mechanical properties and corrosion resistance.

EQUIVALENT GRADES

EN 10088-3 1.4542 X5CrNiCuNb16-4

AFNOR Z6CNU17.04

GOST

AISI 630/17-4 PH

JIS SUS630

APPLICATIONS

1.4542 17-4PH is used in a variety of applications, including aerospace components, high-strength structural parts, valves, and other components requiring a combination of high strength and corrosion resistance. It is also used in the medical and oil and gas industries.

HEAT TREATMENT

1.4542 17-4PH is supplied in annealed +A, and +P conditions.

Mechanical Values for 1.4542 17-4PH at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max. Strength min.		Tensile Strength R _m Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+AT	360	-	Max 1200	-	-	-	-
<= 100	+P800	-	520	800 to 950	18	-	75	-

SUSTAINABLE STAINLESS STEEL



1.4542 17-4PH

Mechanical Values for 1.4542 17-4PH Bright Bars at room temperature in EN 10088-3: 2014 in conditions 2H, 2B, 2G, 2P

Diameter	Annealed		_ Heat	0.2% Proof	Tensile	A5 % Min		Impact Energy	
(mm)	R _m Mpa Max	HB Max	Treatment Condition	strength min.	Strength R _m Mpa	Elongation		(ISO-V) KV J Min.	
						(long)	(tr.)	(long)	(tr.)
=<10	1200	360	+P800	600	900 to 1100	10	-	-	-
10 <t<=16< td=""><td>1200</td><td>360</td><td>+P800</td><td>600</td><td>900 to 1100</td><td>10</td><td>-</td><td>-</td><td>-</td></t<=16<>	1200	360	+P800	600	900 to 1100	10	-	-	-
16 <t<=40< td=""><td>1200</td><td>360</td><td>+P800</td><td>520</td><td>800 to 1050</td><td>12</td><td>-</td><td>75</td><td>-</td></t<=40<>	1200	360	+P800	520	800 to 1050	12	-	75	-
40 <t<=63< td=""><td>1200</td><td>360</td><td>+P800</td><td>520</td><td>800 to 1000</td><td>18</td><td>-</td><td>75</td><td>-</td></t<=63<>	1200	360	+P800	520	800 to 1000	18	-	75	-
63 <t<=160< td=""><td>1200</td><td>360</td><td>+P800</td><td>520</td><td>800 to 950</td><td>18</td><td>-</td><td>75</td><td>-</td></t<=160<>	1200	360	+P800	520	800 to 950	18	-	75	-

PRODUCTS OFFERED

- PEELED BARS
- BRIGHT BARS
- HEXAGONS
- SQUARES
- FLAT BARS
- WIRES