

AMS5659 - 15/5PH

## Alloy Designations

15%Cr 5%Ni Precipitation Hardening Stainless Steel Consumable Electrode Melted

ESR-Type 2 - VAR - Type 1

15-5PH has similarities to the following standard designations and specification

1.4545

Z7 CNU15.05

## Chemical Properties

Element	Chemical Composition %
Carbon (C)	0.00 - 0.07
Silicon (Si)	0.00 - 1.00
Manganese (Mn)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.030
Sulphur (S)	0.00 - 0.015
Chromium (Cr)	14.00 - 15.00
Molybdenum (Mo)	0.00 - 0.50
Nickel (Ni)	3.50 - 5.50
Columbium (Cb)	5xC - 0.45
Copper (Cu)	2.50 - 4.50
Tantalum (Ta)	0.00 - 0.05

## Mechanical Properties

Condition	0.2% Proof Stress (MPa Min)	Tensile Strength (MPa Min)	Elongation (% Min)	Reduction of area (% min)	Har
			Longitude / Transverse	Longitude / Transverse	
H900	1172	1310	10 / 6	35 / 20	388 - 444 max
H1000	1069	1172	10 / 7	38 / 25	375 - 429 max
H1025	1000	1069	12 / 8	45 / 32	331 - 401 max
H1050	862	1000	13 / 9	45 / 33	311 - 375 max
H1100	793	965	14 / 10	45 / 34	302 - 363 max
H1150	724	931	16 / 11	50 / 35	277 - 352 max

## Disclaimer

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The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and

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