

WNR 1.4335, UNS S31002

Introduction :

WNR 1.4335 is an Austenitic stainless steel with sharp management of the residual components so as to produce high corrosion resistance properties in boiling 50-65% Nitric acid solutions. The carbon content is lower than 0.015%. whereas the silicon content is kept under 0.3% . In nitric acid solutions the addition molybdenum are also well known to reduce the behaviour of the steel. This exhibits why the molybdenum content is guaranteed lower than 0.3%. The sharp control of silicon, carbon and phosphorus contents makes it possible to construct more stable austenite microstructure, carbide precipitations and free of intermetallic. The alloy is designed for nitric acid applications such as ammonium nitrate production, production of nitric acid, hydrofluoric pickling and nuclear fuel reprocessing.

Products Available

in forms :

- WNR 1.4335, UNS S31002 Plates
- WNR 1.4335, UNS S31002 Pipes
- WNR 1.4335, UNS S31002 Round Bar
- WNR 1.4335, UNS S31002 Tube
- WNR 1.4335, UNS S31002 Flanges
- WNR 1.4335, UNS S31002 Wire
- WNR 1.4335, UNS S31002 Fittings

Chemical Composition

	WNR 1.4335	UNS S31002
Carbon	0.015 max	0.015 max
Manganese	2.00 max	2.00 max
Phosphorus	0.020 max	0.020 max
Sulfur	0.015 max	0.015 max
Silicon	0.15 max	0.15 max
Chromium	24.0-26.0	24.0-26.0
Nickel	0.10 max	0.10 max
Nitrogen*	0.10 max	0.10 max
Molybdenum	0.10 max	0.10 max
Copper	-	-

Standard Available

in forms :

- ASTM A716 / ASME SA716
- ASTM A213 / ASME SA213
- ASTM A276 / ASME SA276
- ASTM A312 / ASME SA312
- ASTM A580 / ASME SA580
- ASTM A632 / ASME SA632
- ASTM A959 / ASME SA959

Mechanical Properties

	WNR 1.4335	UNS S31002
Ultimate Tensile Strength, Mpa	500-670	500-670
0.2% Yield Strength, Mpa	240 min	240 min
Elongation in 2 inches, %	35 min	35 min
Reduction in Area, %	-	-
Hardness (HBW)	155 max	155 max

Grade is characterized by:

- Excellent resistance to corrosion in nitric acid
- Excellent resistance to intergranular corrosion
- Good resistance to pitting
- Good weldability



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