

Industeel URANUSÂ® 65 310 L Modified Grade - Low C and Si for Nitric Acid Service

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel , T 300 Series Stainless Steel

Material Notes:

Description: URANUSÂ® 65 is a 25 Cr 20 Ni austenitic stainless steel with sharp control of the residual elements in order to provide high corrosion resistance properties in boiling 50-65% Nitric acid solutions. The silicon content is kept under 0.3% while the carbon content is lower than 0.015%. Molybdenum additions are also well known to reduce the behavior of the steel in nitric acid solutions. This explains why the molybdenum content is guaranteed lower than 0.3%. The sharp control of Carbon, Silicon and phosphorus contents makes it possible to produce a more stable austenite microstructure, free of intermetallic or carbide precipitations. The alloy is designed for nitric acid applications. The grade is not recommended for concentrated nitric acid purposes or highly oxidizing nitric acid solutions (with Gr VI species...)Information provided by manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Industeel-URANUS-65-310-L-Modified-Grade-Low-C-and-Si-for-Nitric-Acid-Service.php

Physical Properties	Metric	English	Comments
Density	7.90 g/cc	0.285 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	155	155	Average
Tensile Strength, Ultimate	>= 490 MPa	>= 71100 psi	Minimum Guaranteed
Tensile Strength, Yield	>= 215 MPa @Strain 0.200 %	>= 31200 psi @Strain 0.200 %	
	>= 245 MPa @Strain 1.00 %	>= 35500 psi @Strain 1.00 %	
Elongation at Break	>= 40 %	>= 40 %	
Modulus of Elasticity	195 GPa	28300 ksi	
Poissons Ratio	0.30	0.30	Calculated
Shear Modulus	75.0 GPa @Temperature 20.0 Â°C	10900 ksi @Temperature 68.0 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	15.8 Âµm/m-Â°C @Temperature 0.000 - 100 Â°C	8.78 Âµin/in-Â°F @Temperature 32.0 - 212 Â°F	

Thermal Properties	Metric	English	Comments
	@Temperature 0.000 - 300 Å°C	@Temperature 32.0 - 572 Å°F	
	17.3 Åµm/m-Å°C	9.61 Åµin/in-Å°F	
	@Temperature 0.000 - 500 Å°C	@Temperature 32.0 - 932 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.015 %	0.015 %	
Chromium, Cr	25 %	25 %	
Iron, Fe	51.635 - 54.485 %	51.635 - 54.485 %	As remainder
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 0.30 %	<= 0.30 %	
Nickel, Ni	20.5 %	20.5 %	
Niobium, Nb (Columbium, Cb)	<= 0.25 %	<= 0.25 %	
Silicon, Si	<= 0.30 %	<= 0.30 %	

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