

Haynes HR-224® Nickel Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Alloy with excellent oxidation resistance and improved fabricability and weldability compared to HAYNES® 214® alloy. This Ni-27.5Fe-20Cr-3.8Al alloy achieves superior oxidation resistance through the formation of a tightly adherent alumina protective scale. It exhibits excellent ductility and formability characteristics, with weldability on par with nickel-iron-chromium alloys of substantially lower aluminum contents. Potential uses include heat recuperators, automotive catalytic converters and heat shields, strand annealing furnace tubulars, and other severely oxidizing environments. Data provided by the manufacturer, Haynes International, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haynes-HR-224-Nickel-Alloy.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	481 MPa	69800 psi	
	@Temperature 760 °C	@Temperature 1400 °F	
Tensile Strength, Yield	739 MPa	107000 psi	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Tensile Strength, Yield	342 MPa	49600 psi	
	@Strain 0.200 %, Temperature 25.0 °C	@Strain 0.200 %, Temperature 77.0 °F	
Elongation at Break	401 MPa	58200 psi	
	@Strain 0.200 %, Temperature 760 °C	@Strain 0.200 %, Temperature 1400 °F	
Elongation at Break	27 %	27 %	
	@Temperature 760 °C	@Temperature 1400 °F	
Elongation at Break	45 %	45 %	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	3.8 %	3.8 %	
Chromium, Cr	20 %	20 %	
Iron, Fe	27.5 %	27.5 %	
Nickel, Ni	48.7 %	48.7 %	as balance

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