

AFE Technologies Cronite 34Ni/25Cr/Nb No. HR 33 Nb

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

High temperature nickel alloy castings. Applications include heat treatment and handling products, furnace products, tubes, power generation, and petrochemical industries. Information provided by AFE Technologies/North American Cronite, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_AFE-Technologies-Cronite-34Ni25CrNb-No-HR-33-Nb.php

Mechanical Properties	Metric	English	Comments
Rupture Strength	2.00 MPa	290 psi	Stress Rupture
	@Temperature 1150 °C, Time 3.60e+7 sec	@Temperature 2100 °F, Time 10000 hour	
	4.60 MPa	667 psi	Stress Rupture
	@Temperature 1100 °C, Time 3.60e+7 sec	@Temperature 2010 °F, Time 10000 hour	
	8.60 MPa	1250 psi	Stress Rupture
	@Temperature 1050 °C, Time 3.60e+7 sec	@Temperature 1920 °F, Time 10000 hour	
	12.8 MPa	1860 psi	Stress Rupture
	@Temperature 1000 °C, Time 3.60e+7 sec	@Temperature 1830 °F, Time 10000 hour	
	22.5 MPa	3260 psi	Stress Rupture
	@Temperature 950 °C, Time 3.60e+7 sec	@Temperature 1740 °F, Time 10000 hour	
	32.0 MPa	4640 psi	Stress Rupture
	@Temperature 900 °C, Time 3.60e+7 sec	@Temperature 1650 °F, Time 10000 hour	
	40.0 MPa	5800 psi	Stress Rupture
	@Temperature 850 °C, Time 3.60e+7 sec	@Temperature 1560 °F, Time 10000 hour	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	25 %	25 %	
Iron, Fe	32.8 %	32.8 %	As Remainder
Manganese, Mn	1.0 %	1.0 %	

Nickel, Ni Component Elements Properties	37 % Metric	37 % English	Comments
Niobium, Nb (Columbium, Cb)	2.0 %	2.0 %	
Silicon, Si	1.8 %	1.8 %	

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