

AFE Technologies Cronite 25Cr/12Ni No. HR7

Category : Metal , Superalloy , Iron Base

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-25Cr12Ni-No-HR7.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	550 MPa	79800 psi	As Cast
Tensile Strength, Yield	280 MPa	40600 psi	As Cast
Elongation at Break	15 %	15 %	As Cast; 5.65 A^{0.5}
Rupture Strength	3.60 MPa	522 psi	Stress Rupture
	@Temperature 1100 °C, Time 3.60e+7 sec	@Temperature 2010 °F, Time 10000 hour	
	5.70 MPa	827 psi	Stress Rupture
	@Temperature 1050 °C, Time 3.60e+7 sec	@Temperature 1920 °F, Time 10000 hour	
	8.50 MPa	1230 psi	Stress Rupture
	@Temperature 1000 °C, Time 3.60e+7 sec	@Temperature 1830 °F, Time 10000 hour	
	12.0 MPa	1740 psi	Stress Rupture
	@Temperature 950 °C, Time 3.60e+7 sec	@Temperature 1740 °F, Time 10000 hour	
	17.0 MPa	2470 psi	Stress Rupture
	@Temperature 900 °C, Time 3.60e+7 sec	@Temperature 1650 °F, Time 10000 hour	
	24.0 MPa	3480 psi	Stress Rupture
	@Temperature 850 °C, Time 3.60e+7 sec	@Temperature 1560 °F, Time 10000 hour	
	33.0 MPa	4790 psi	Stress Rupture
	@Temperature 800 °C, Time 3.60e+7 sec	@Temperature 1470 °F, Time 10000 hour	
	46.0 MPa	6670 psi	Stress Rupture
	@Temperature 750 °C, Time 3.60e+7 sec	@Temperature 1380 °F, Time 10000 hour	

Mechanical Properties	66.0 MPa Metric	9570 psi English	Comments Stress Rupture
	@Temperature 700 °C, Time 3.60e+7 sec	@Temperature 1290 °F, Time 10000 hour	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	25 %	25 %	
Iron, Fe	60.1 %	60.1 %	As Remainder
Manganese, Mn	1.0 %	1.0 %	
Nickel, Ni	12 %	12 %	
Silicon, Si	1.5 %	1.5 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China