

AFE Technologies Cronite 37Ni/18Cr No. HR5

Category : Metal , Nonferrous Metal , Nickel Alloy , 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-37Ni18Cr-No-HR5.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	460 MPa	66700 psi	As Cast
Tensile Strength, Yield	240 MPa	34800 psi	As Cast
Elongation at Break	6.0 %	6.0 %	As Cast; 5.65 A^{0.5}
Rupture Strength	3.20 MPa	464 psi	Stress Rupture
	@Temperature 1150 °C, Time 3.60e+7 sec	@Temperature 2100 °F, Time 10000 hour	
	4.70 MPa	682 psi	Stress Rupture
	@Temperature 1100 °C, Time 3.60e+7 sec	@Temperature 2010 °F, Time 10000 hour	
	7.00 MPa	1020 psi	Stress Rupture
	@Temperature 1050 °C, Time 3.60e+7 sec	@Temperature 1920 °F, Time 10000 hour	
	10.5 MPa	1520 psi	Stress Rupture
	@Temperature 1000 °C, Time 3.60e+7 sec	@Temperature 1830 °F, Time 10000 hour	
	16.0 MPa	2320 psi	Stress Rupture
	@Temperature 950 °C, Time 3.60e+7 sec	@Temperature 1740 °F, Time 10000 hour	
23.0 MPa	3340 psi	Stress Rupture	
@Temperature 900 °C, Time 3.60e+7 sec	@Temperature 1650 °F, Time 10000 hour		
32.0 MPa	4640 psi	Stress Rupture	
@Temperature 850 °C, Time 3.60e+7 sec	@Temperature 1560 °F, Time 10000 hour		
42.0 MPa	6090 psi	Stress Rupture	
@Temperature 800 °C, Time 3.60e+7 sec	@Temperature 1470 °F, Time 10000 hour		

Mechanical Properties	56.0 MPa Metric	8120 psi English	Comments Stress Rupture
	@Temperature 750 °C, Time 3.60e+7 sec	@Temperature 1380 °F, Time 10000 hour	
	75.0 MPa	10900 psi	
	@Temperature 700 °C, Time 3.60e+7 sec	@Temperature 1290 °F, Time 10000 hour	Stress Rupture

Component Elements Properties	Metric	English	Comments
Carbon, C	0.40 %	0.40 %	
Chromium, Cr	18 %	18 %	
Iron, Fe	41.8 %	41.8 %	As Remainder
Manganese, Mn	1.0 %	1.0 %	
Nickel, Ni	37 %	37 %	
Silicon, Si	1.8 %	1.8 %	

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