

## AFE Technologies Cronite 25Cr/20Ni No. HR6

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-25Cr20Ni-No-HR6.php](http://www.lookpolymers.com/polymer_AFE-Technologies-Cronite-25Cr20Ni-No-HR6.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	500 MPa	72500 psi	As Cast
Tensile Strength, Yield	260 MPa	37700 psi	As Cast
Elongation at Break	12 %	12 %	As Cast; 5.65 A<sup>0.5</sup>
Rupture Strength	2.20 MPa	319 psi	Stress Rupture
	@Temperature 1150 °C, Time 3.60e+7 sec	@Temperature 2100 °F, Time 10000 hour	
	3.80 MPa	551 psi	Stress Rupture
	@Temperature 1100 °C, Time 3.60e+7 sec	@Temperature 2010 °F, Time 10000 hour	
	6.00 MPa	870 psi	Stress Rupture
	@Temperature 1050 °C, Time 3.60e+7 sec	@Temperature 1920 °F, Time 10000 hour	
	9.50 MPa	1380 psi	Stress Rupture
	@Temperature 1000 °C, Time 3.60e+7 sec	@Temperature 1830 °F, Time 10000 hour	
	14.5 MPa	2100 psi	Stress Rupture
	@Temperature 950 °C, Time 3.60e+7 sec	@Temperature 1740 °F, Time 10000 hour	
21.0 MPa	3050 psi	Stress Rupture	
@Temperature 900 °C, Time 3.60e+7 sec	@Temperature 1650 °F, Time 10000 hour		
30.0 MPa	4350 psi	Stress Rupture	
@Temperature 850 °C, Time 3.60e+7 sec	@Temperature 1560 °F, Time 10000 hour		
41.0 MPa	5950 psi	Stress Rupture	
@Temperature 800 °C, Time 3.60e+7 sec	@Temperature 1470 °F, Time 10000 hour		

Mechanical Properties	55.0 MPa Metric	7980 psi English	Comments Stress Rupture
	@Temperature 750 °C, Time 3.60e+7 sec	@Temperature 1380 °F, Time 10000 hour	
	72.0 MPa	10400 psi	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	52.1 %	52.1 %	As Remainder
Manganese, Mn	1.0 %	1.0 %	
Nickel, Ni	20 %	20 %	
Silicon, Si	1.5 %	1.5 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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