

Goodfellow Iron 90/Chromium 9/Molybdenum 1 Alloy

Category : Metal , Ferrous Metal , Superalloy , Iron Base

Material Notes:

High Chromium heat resistant ferritic steel with good weldability. Used for boiler tubes Information provided by Goodfellow.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Goodfellow-Iron-90Chromium-9Molybdenum-1-Alloy.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	590 MPa	85600 psi	
Shear Strength	410 MPa	59500 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.3 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	6.28 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 25.0 - 100 $^\circ\text{C}$	@Temperature 77.0 - 212 $^\circ\text{F}$	
Thermal Conductivity	26.0 W/m-K	180 BTU-in/hr-ft ² - $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Chromium, Cr	9.0 %	9.0 %	
Iron, Fe	90 %	90 %	
Molybdenum, Mo	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000499 ohm-cm	0.0000499 ohm-cm	

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