Ametek P409L P/M Stainless Steel, Sintered from 6.60 g/cc Green Density

Category : Metal , Ferrous Metal , Stainless Steel , T 400 Series Stainless Steel

Material Notes:

P409L is a ferritic, weldable grade of stainless steel with high compressibility, enhanced green strength and good sinterability. This stabilized grade provides excellent corrosion resistance and has the capacity to provide high caliber mechanical properties because of its high temperature sintering response. P409L may be used in automotive exhaust system applications, among other uses.For property data reported here: Compacting properties measured on powders with 1% lithium stearate. Sintering was done in dissociated ammonia at 1121°C (2050°F) for 45 minutes. Compacting pressure 50 tsi. Green strength 2200 psi. Sintered breaking strength 120,000 psi.Information provided by Ametek Specialty Metal Products.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ametek-P409L-PM-Stainless-Steel-Sintered-from-660-gcc-Green-Density.php

Physical Properties	Metric	English	Comments
Bulk Density	2.80 g/cc	0.101 lb/in³	Powder
Density	6.67 g/cc	0.241 lb/in³	Sintered

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	80	80	
Tensile Strength, Ultimate	441 MPa	64000 psi	
Elongation at Break	5.3 %	5.3 %	

Thermal Properties	Metric	English	Comments
Shrinkage	0.24 %	0.24 %	versus die size

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	11.5 - 13.5 %	11.5 - 13.5 %	
Iron, Fe	82.4 - 88.5 %	82.4 - 88.5 %	As Remainder
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

Descriptive Properties	Value	Comments
Powder Flow	30 sec/50 g	

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