

Ametek P410L P/M Stainless Steel, Sintered from 6.0 g/cc Green Density

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

Material Notes:

Powder apparent bulk density 2.8 g/cc; powder flow 30 sec/50g. Compacting properties measured on powders with 1% lithium stearite. Sintering was done in dissociated ammonia at 1121°C (2050°F) for 45 minutes. Sintered properties below were determined using transverse rupture bars. Compacting pressure 30 tsi. Green strength 1500 psi. Sintered breaking strength 85 ksi. Dimensional change from die size - 0.31%. Information provided by Ametek Specialty Metal Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ametek-P410L-PM-Stainless-Steel-Sintered-from-60-gcc-Green-Density.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 6.13 g/cc | 0.221 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|-----------|----------|
| Hardness, Rockwell B | 42 | 42 | |
| Tensile Strength, Ultimate | 280 MPa | 40600 psi | |
| Elongation at Break | 3.6 % | 3.6 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------------|---------------|------------|
| Carbon, C | <= 0.030 % | <= 0.030 % | |
| Chromium, Cr | 11.5 - 13.5 % | 11.5 - 13.5 % | |
| Iron, Fe | 83.5 - 88.5 % | 83.5 - 88.5 % | as balance |
| Manganese, Mn | <= 2.0 % | <= 2.0 % | |
| Phosphorous, P | <= 0.040 % | <= 0.040 % | |
| Silicon, Si | <= 1.0 % | <= 1.0 % | |
| Sulfur, S | <= 0.030 % | <= 0.030 % | |

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