

## Ametek P304L P/M Stainless Steel, Sintered from 6.25 g/cc Green Density

Category : Metal , Ferrous Metal , Stainless Steel , T 300 Series Stainless Steel

**Material Notes:**

Powder apparent bulk density 2.7 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 410 psi. Sintered breaking strength 73 ksi. Dimensional change from die size -

0.53%. Information provided by Ametek Specialty Metal Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ametek-P304L-PM-Stainless-Steel-Sintered-from-625-gcc-Green-Density.php](http://www.lookpolymers.com/polymer_Ametek-P304L-PM-Stainless-Steel-Sintered-from-625-gcc-Green-Density.php)

Physical Properties	Metric	English	Comments
Density	6.39 g/cc	0.231 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	40	40	
Tensile Strength, Ultimate	280 MPa	40600 psi	
Elongation at Break	3.4 %	3.4 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	18 - 20 %	18 - 20 %	
Iron, Fe	65 - 74 %	65 - 74 %	as balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Nickel, Ni	8.0 - 12 %	8.0 - 12 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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