

ATI Allegheny Ludlum Stainless Steel Chromium-Nickel-Manganese AL 201LN™, M-7 (UNS S20153)

Category : Metal , Ferrous Metal , Stainless Steel , T S20000 Series Stainless Steel

Material Notes:

AL 201LN™ is a special composition of Type 201 specifically for sub-zero temperature service as welded tanks and vessels. This alloy has replaced the familiar 300 series stainless such as type 301 or type 304 in many applications based upon technical equivalency and economic considerations. AL 201LN alloy is a natural choice for use at temperatures down to -320°F. The alloy is suited for many ambient temperature structural applications, such as railroad freight cars, truck trailers, coal handling and other bulk transport equipment where there is need for a good combination of corrosion resistance, strength, toughness and ease of fabrication. Information provided by Allegheny Ludlum Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Stainless-Steel-Chromium-Nickel-Manganese-AL-201LN-M-7-UNS-S20153.php

Physical Properties	Metric	English	Comments
Density	7.857 g/cc	0.2839 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	673 MPa @Temperature 70.0 °C	97600 psi @Temperature 158 °F	transverse
Tensile Strength, Yield	321 MPa @Temperature 70.0 °C	46600 psi @Temperature 158 °F	transverse
Elongation at Break	59 % @Temperature 70.0 °C	59 % @Temperature 158 °F	transverse
Izod Impact	184 J	136 ft-lb	transverse

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	16 - 17.5 %	16 - 17.5 %	
Copper, Cu	<= 1.0 %	<= 1.0 %	
Iron, Fe	71 %	71 %	as balance
Manganese, Mn	6.4 - 7.5 %	6.4 - 7.5 %	
Nickel, Ni	4.0 - 5.0 %	4.0 - 5.0 %	
Nitrogen, N	0.10 - 0.25 %	0.10 - 0.25 %	

Component Elements Properties	Metric ¹⁵ %	English ⁵ %	Comments
Silicon, Si	<= 0.75 %	<= 0.75 %	
Sulfur, S	<= 0.015 %	<= 0.015 %	

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