

## Wingate Alloys Winco NT 24 Nitrogen-Strengthened Austenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic

### Material Notes:

Winco NT 24 provides good aqueous corrosion resistance combined with resistance to abrasives, metal-to-metal wear and sustained heats of 1500°F. Higher mechanical properties than standard austenitic grades. Outstanding corrosive wear resistance under many different sliding conditions. Galling resistance equivalent to 304 stainless steel. General Properties: Winco NT 24 has annealed mechanical properties, which are well above those of typical austenitic grades such as 304. This higher strength affords the opportunity to reduce thickness or equivalent engineering loads. Galling resistance of Winco NT 24 is approximately equal to 304. It work hardens rapidly while retaining good ductility. Unlike other nitrogen-strengthened stainless steels, Winco NT 24 is subject to magnetic transformation when cold worked. Winco NT 24 exhibits outstanding corrosive wear resistance under many different sliding conditions. It is more cost effect than 409 and 304 which are typically used in wear abrasive applications. Typical Applications: Coal handling equipment-screens, chute liners, buckets and hopper cars. Water supply and control structures. Sewage treatment plant structures. Mining equipment – magnetic ore separator screens. Bulk solids handling equipment – conveyor parts. Mixing tanks. Wear plates, now using less cost-effective materials such as abrasion resistant steels, 409 or 304 stainless steels. Transport and vibratory equipment where fatigue resistance is a major design criteria. Shipboard containers. Information from Wingate Alloys Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Wingate-Alloys-Winco-NT-24-Nitrogen-Strengthened-Austenitic-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Wingate-Alloys-Winco-NT-24-Nitrogen-Strengthened-Austenitic-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Density	7.86 g/cc	0.284 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 241	<= 241	
Hardness, Rockwell B	<= 100	<= 100	
Tensile Strength	>= 655 MPa	>= 95000 psi	
Tensile Strength, Yield	>= 331 MPa	>= 48000 psi	
Elongation at Break	>= 35 %	>= 35 %	2[in]

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	15 - 17 %	15 - 17 %	
Iron, Fe	69.6 - 76.35 %	69.6 - 76.35 %	
Manganese, Mn	7.0 - 9.0 %	7.0 - 9.0 %	
Nickel, Ni	1.5 - 3.0 %	1.5 - 3.0 %	

<b>Component Elements Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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