

## Latrobe Lescalloy® Jethete M-152 ESR 1.25 RD High Strength Stainless Steel

Category : Metal , Ferrous Metal , Stainless Steel

### Material Notes:

LESCALLOY JETHETE M-152 ESR is a nitrogen bearing, hardenable 12% chromium stainless steel intended for various structural components requiring high strength and good oxidation resistance up to 800°F. Electrode slag remelting is employed to assure preferred ingot solidification and superior cleanliness for critical applications. Information Provided by Timken Latrobe Steel. Timken sold Latrobe in December 2006. They are now Latrobe Specialty Steels Co.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Latrobe-Lescalloy-Jethete-M-152-ESR-125-RD-High-Strength-Stainless-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lescalloy-Jethete-M-152-ESR-125-RD-High-Strength-Stainless-Steel.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.76 g/cc	7.76 g/cc	
Density	7.75 g/cc	0.280 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1300 - 1300 MPa	188000 - 189000 psi	
Tensile Strength, Yield	1041 - 1048 MPa @Strain 0.200 %	151000 - 152000 psi @Strain 0.200 %	
Elongation at Break	18 - 19 %	18 - 19 %	% in 4D
Reduction of Area	60 - 63 %	60 - 63 %	
Modulus of Elasticity	213 GPa	30900 ksi	
	170 GPa @Temperature 538 °C	24600 ksi @Temperature 1000 °F	
	199 GPa @Temperature 260 °C	28800 ksi @Temperature 500 °F	
Notched Tensile Strength	2116 - 2130 MPa	306900 - 309000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	11.2 µm/m-°C @Temperature 20.0 - 260 °C	6.22 µin/in-°F @Temperature 68.0 - 500 °F	
	12.1 µm/m-°C @Temperature 20.0 - 538 °C	6.72 µin/in-°F @Temperature 68.0 - 1000 °F	

Thermal Properties	Metric	English	Comments
Component Elements Properties	Metric	English	Comments
Carbon, C	0.14 %	0.14 %	
Chromium, Cr	12 %	12 %	
Iron, Fe	82.175 %	82.175 %	
Manganese, Mn	0.70 %	0.70 %	
Molybdenum, Mo	1.75 %	1.75 %	
Nickel, Ni	2.75 %	2.75 %	
Nitrogen, N	$\geq 0.035$ %	$\geq 0.035$ %	
Silicon, Si	0.15 %	0.15 %	
Vanadium, V	0.30 %	0.30 %	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China