

## Latrobe Lesco 53 VIM-VAR Premium Carburizing Steel

Category : Metal , Ferrous Metal , Alloy Steel , Carbon Steel

### Material Notes:

LESCO 53 VIM-VAR is a premium quality alloy carburizing gear steel designed to resist softening at elevated service temperatures. It is double vacuum processed by vacuum induction melting followed by vacuum arc remelting to provide optimum metallurgical quality. Based on its combination of high-temperature performance, deep hardenability, and excellent toughness and fatigue resistance, Lesco 53 VIM-VAR find application in demanding helicopter and aerospace drive train components. 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-Lesco-53-VIM-VAR-Premium-Carburizing-Steel.php](http://www.lookpolymers.com/polymer_Latrobe-Lesco-53-VIM-VAR-Premium-Carburizing-Steel.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	35	35	Core between 70Â°F and 600Â°F
	55	55	Case at 600Â°C
Tensile Strength, Ultimate	1170 MPa	170000 psi	
Tensile Strength, Yield	965 MPa	140000 psi	
Elongation at Break	16 %	16 %	in 2"
Reduction of Area	63.5 %	63.5 %	
Charpy Impact	118 - 129 J	87.0 - 95.1 ft-lb	V-Notch

Thermal Properties	Metric	English	Comments
CTE, linear	11.26 Âµm/m-Â°C	6.256 Âµin/in-Â°F	
	@Temperature 24.0 - 93.0 Â°C	@Temperature 75.2 - 199 Â°F	
	12.25 Âµm/m-Â°C	6.806 Âµin/in-Â°F	
	@Temperature 24.0 - 316 Â°C	@Temperature 75.2 - 601 Â°F	
	13.05 Âµm/m-Â°C	7.250 Âµin/in-Â°F	
	@Temperature 24.0 - 538 Â°C	@Temperature 75.2 - 1000 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.11 %	0.11 %	
Chromium, Cr	1.0 %	1.0 %	
Copper, Cu			

Component Elements Properties	<sup>2.0%</sup> Metric	<sup>2.0%</sup> English	Comments
Iron, Fe	90.24 %	90.24 %	
Manganese, Mn	0.40 %	0.40 %	
Molybdenum, Mo	3.25 %	3.25 %	
Nickel, Ni	2.0 %	2.0 %	
Silicon, Si	0.90 %	0.90 %	
Vanadium, V	0.10 %	0.10 %	

## 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