

Material Test Report

Heat Code: TXR

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA STEEL INC. PO: 21 Sales Order: 112787 Line: 7 5100 WESTHEIMER ROAD Item Code: 0152400100-0020F Qty Shipped: 200 SUITE 200 Item Desc: FLG 04.00 0150 SO RF Houston, TX 77056 Supplier: CMC Supplier Heat: 3031901

Spec: ASTM A105/A105M-(11a)/ASME SA 105/SA 105M-(08a) Section II Part A

P Phosphor S Sulphur		✓ 74:	39-96-5	Cr Chromit Mo Molybdo V Vanadit	enum	0.07 0.02 0.002	√ 7	440-47-3
P Phosphor S Sulphur	ous 0.013	✓ 74:	39-96-5	•				
S Sulphur				V Vanadi	ım'	0.002		
	0.015				4111	0.002		
64 6434	0.010			Cb Columbi	Lum	0.001		
Si Silicon	0.21			C.E.		0.43		
Cu Copper	0.27	√ 74	40-50-8	CuNiCrMo	•	0.444		
Ni Nickel	0.08	✓ 74	40-02-0	CrMo		0.094		

Mechanical T	esting	Other					
Test Lab	AFG	WILL	CMC-TEXAS				
Test Bar Size	Sacrificial Piece	MHC	3031901				
нвш	163 - 163	EF	Y				
Elg (%)	33	DESC:	SPL 2"				
RA (%)	55						
Tensile Specimen Size (in)	.498						
Tensile (ksi)	78.4						
Yield (ksi)	47.8		•				
Gauge Length	2						
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		•	•				
		•					
		!					

No Weld repair performed. Chemical Analysis results shown are actual. Forgings are capable of passing hydrostatic test compatible with the appropriate rating. Elongation taken from a round specimen. Yield strength was determined using the .2% offset method. All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing. Made in USA

No weld repair performed on this product.

Product compliant with NACE MR0175 / ISO 15156 latest edition and dimensions to ANSI B16.5 - 2009

Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

245398

Certification Date:

8/20/2012

Nicholas Tepovich - Metallurgic Lab Manager

Nielalas Tepare

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b