

Material Test Report

Heat Code: UFF

An Ameri-Forge Group Company 13770 Industrial Rd. Houston, TX 77015 Sales: (713) 868-4421 Fax: (713) 455-8366

ISO 9001:2008 Certified

PLESA STEEL INC. PO: 42 Sales Order: 116720 Line: 2 5100 WESTHEIMER ROAD Item Code: 0153300100-0020F Qty Shipped: 50 SUITE 200 Item Desc: FLG 03.00 0150 BL RF

Houston, TX 77056 Supplier: CMC Supplier Heat: 3033202

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

P Phos	on anese phorous	0.19	/	7439-96-5	Cr	Chrom	ium	0.07	V -	440-47-3
P Phos			/	7439-96-5						
	phorous	0 000		1433 30 3	: Mo	Molyb	denum	0.03		
5 <u>2</u> 555 5 5		0.009			V	Vanad	ium	0.002		
S Sulpi	hur	0.024			Cb	Colum	bium	0.003		
Si Sili	con	0.21			C.E			0.40		
Cu Coppe	er	0.23	✓	7440-50-8	CuN	iCrMo		0.398		
Ni Nicke	el	0.07	/	7440-02-0	CrM	0		0.098		

Mechanical T	esting	Other					
Test Lab	AFG	MILL		CMC-TEXAS			
Test Bar Size	Sacrificial Piece	MHC		3033202			
HBW	159 - 159	EF		Y			
Elg (%)	31						
RA (%)	62						
Tensile Specimen Size (in)	.249						
Tensile (ksi)	80	•					
Yield (ksi)	46.3						
Gauge Length	1						
		:					

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

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.:

250009

Certification Date:

10/12/2012

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

Violadas Lepare

Nicholas Tepovich - Metallurgic Lab Manager