

Material Test Report

Heat Code: UPB

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. 5100 WESTHEIMER ROAD SUITE 200 Houston, TX 77056

PO: 49 Sales Order: 116581 Line: 5 Item Code: 0151400101-0020F Qty Shipped: 172

Item Desc: FLG 04.00 0150 WN RF STD

Supplier: CMC Supplier Heat: 3034397

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

Eler	ment (%wt	Ladle	Product	EPCR	A CAS#	Elei	ment	(%wt)	Ladle	Product	EPCRA	CAS#
C Mn P S	Carbon Manganese Phosphorous Sulphur	0.21 1.01 0.010 0.018	The Park of the State of the St	1	7439-96-5	Cr Mo V Cb	Chron	nium odenum lium	0.08 0.04 0.002 0.003	rroduct		440-47-3
Si Cu Ni	Silicon Copper Nickel	0.22 0.19 0.16			7440-50-8 7440-02-0	C.E CuN CrM	iCrMo		0.43 0.465 0.115			

Mechanical T		Other			
Test Lab	AFG	MILL	011101	CMC-TEXAS	
Test Bar Size	Sacrificial Piece	мнс		3034397	
HBW	167 - 167	EF		Y	
Elg (%)	29			1	
RA (%)	62	ì			
Tensile Specimen Size (in)	.249	•			
Tensile (ksi)	81.3				
Yield (ksi)	48.3				
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.:

249900

Certification Date:

10/12/2012

Nieldelas Teparely Nicholas Tepovich - Metallurgic Lab Manager

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