

Material Test Report

Heat Code: UUD

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

ISO 9001:2008 Certified

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

PLESA STEEL INC.

Houston, TX 71056

5100 WESTHEIMER ROAD

SUITE 200

PO: 49 Item Code: 0152600100-0020F

Sales Order: 116581

Qty Shipped: 100

Item Desc: FLG 06.00 0150 SO RF

Supplier: CMC

Supplier Heat: 3035181

Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Eler	nent	(%wt)	Ladie	Product	EPCRA	CAS#
С	Carbon	0.20			·	Cr	Chromiu	FU	0.07		✓ 7	1440-47-3
Mπ	Manganese	1.04		✓	7439-9 6- 5	Mo	Molybde	num	0.02			
P	Phosphorous	0.010				V	Vanadiu	m	0.002			
s	Sulphur	0.016				- ೧৯	Columbi	שתו	0.004			
Si	Silicon	0.24				C.E			0.41			
Cu	Copper	0.23		✓	7440-50-8	CuN	icrMo		0.425			
Ni	Nickel	0.10		✓	7440-02-0	CrM	o		0.095			
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Mechanical To	esting		Other	
Test Lab Test Bar Size	AFG Sacrificial Piece	MHC EF		3035181
HBW Elg (%) RA (%)	163 ~ 163 30 56	:		
Tensile Specimen Size (in) Tensile (ksi)	.494 81.1			
Yield (ksi) Gauge Length	46.8 2	!		

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 U\$A.

No weid 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.:

255843

Certification Date:

12/21/2012

and Metallurgy

This report in issued in compliance with the requirements of EN10204 3.11 ISO 104743.1.b