

Material Test Report

Heat Code: UBK

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: 5

 5100 WESTHEIMER ROAD
 Item Code: 0156400100-0020f
 Qty Shipped: 30

 SUITE 200
 Item Desc: FLG 04.00 0150 TH RF

 Houston, TX 77056
 Supplier: CMC
 Supplier Heat: 3032350

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

		Ladle	Product	EPCR	A CAS#	E161	nent	(%wt)	Ladle	Product	EPCRA	CAS#
C C	arbon	0.19		-		Cr	Chromi	um	0.09		√ 7	440-47-3
ıın M	langanese	1.01		✓	7439-96-5	Mo	Molybd	enum	0.04			
P Pl	hosphorous	0.009			1	v	Vanadi	um	0.001			
3 \$1	ulphur	0.018			1	Cb	Columb	ium	0.003			•
Si s.	ilicon	0.22			j	C.E			0.41			
Cu c	opper	0.26		✓	7440-50-8	CuN	iCrMo		0.486			
Ni N	lickel	0.10		✓	7440-02-0	CrM	0		0.126			

Mechanical T	esting	Other			
Test Lab	AFG	MILL	CMC-TEXAS		
Test Bar Size	Sacrificial Piece	MHC	3032350		
HBW	163 - 163	EF	¥		
Elg (%)	30	į			
RA (%)	52	:			
Tensile Specimen Size (in)	.248				
Tensile (ksi)	81.9				
Yield (kşi)	50.2				
Gauge Length	1	:			
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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

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 P(anning 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 rumber 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.:

242276

Certification Date:

7/11/2012

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

Nielalas Leparal

Nicholas Tepovich - Metallurgic Lab Manager