

Houston, TX 77056

Material Test Report

Heat Code: UCB

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

ISO 9001:2008 Certified

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

Supplier Heat: 3032598

Sales Order: 122004 Line: 1 PLESA STEEL INC. PO: 82 Qty Shipped: 30 5100 WESTHEIMER ROAD Item Code: 0302400100-0020F SUITE 200 Item Desc: FLG 04.00 0300 SO RF

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

Element	(%wt)	Ladle	Product	EPCR/	A CAS#	Ele	ment	(%wt)	Ladle	Product	EPCRA	CAS#
C Carl	oon	0.19				:Cr	Chrom	ium	0.07		1	440-47-3
Mn Man	ganese	1.04		✓ 7439-96-5		Mo Molybdenum		0.03				
Pho:	sphorous	0.011				V	Vanad	ium	0.002			
S Sul	phur	0.013				Cb	Colum	bium	0.003			
Si Sil	icon	0.25				:c.E			0.41			
Cu Cop	oer	0.28		~	√ 7440-50-8		CuNiCrMo		0.488			
Ni Nic	cel	0.11		~	7440-02-0	CrM	0		0.098			

Mechanical Testing Other CMC-TEXAS : MILL Test Bar Size Sacrificial Piece MHC 3032598 163 - 163 : Country of Origin USA HRW Elg (%) 32 RA (%) Tensile Specimen Size (in) ,498 81.4 Tensile (ksi) Yield (ksi) 49.5 Gauge Length

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 816.5 - 2009

Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10

Forged in USA

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 along to determine whether your fedirity is required to Submit a Taxis Release Inventory Report and Excellent 313.

Cerification No.:

263702

Certification Date: 3/25/2013

This report is issued in compliance with the requirements of EN102043.1/ISO 104743.1.b