

Material Test Report

Heat Code: UXB

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: 82
 Sales Order: 122004
 Line: 8

 5100 WESTHEIMER ROAD
 Item Code: 0601400102-0021F
 Qty Shipped: 20

 SUITE 200
 Item Desc: FLG 04.00 0600 WN RF XH

 Houston, TX 77056
 Supplier: CMC
 Supplier Heat: 3035173

Spec: ASTM A105/A105N-(12)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

Elen	nent (%wt)	Ladie	Product	EPCR/	CAS#	Elen	nent	(%wt)	Ladle	Product	EPCR	A CAS#
С	Carbon	0.19				:Ni	Nickel		0.10		✓	7440-02-0
Mn	Manganese	1.08		✓	7439-96-5	Cr	Chromiu	m	0.09		\checkmark	7440-47-3
P	Phosphorous	0.012				Мо	Molybde	num	0.027			
S	Sulphur	0.025				: v	Vanadiu	m:	0.002			
Si	Silicon	0.22				Cb	Columbi	.um	0.004			
Cu	Copper	0.26		✓	7440-50-8	C.E			0.42			

Mechanical Te	stlng	Heat Treat			
Test Lab	AFG	:Norm. Temp. (F)	1675		
Test Bar Size	Sacrificial Piece	Norm. (Hrs)	4		
HBW	159 - 159	Norm. Cooling Type	AIR		
Elg (%)	32	:Norm. Location	AFG		
RA (%)	59				
Tensile Specimen Size (in)	.495	Othe	r		
Tensile (ksi)	80.2	: MILL	CMC-TEXAS		
Yield (ksi)	52.6	MHC	3035173		
Gauge Length	2	Country of Origin	USA (US)		
		; EF	Y		
		DESC:	P91072-00802-13		
		DESC2:	LINE 49		

Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 / ISO 15156 latest edition and dimensions to ANS: 816.5 - 2009

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 welding performed.

AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:200 and in compiance to PED 97/23/EC, Section 4.3

Tensile Testing Per RSTM 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 in required to submit a Toxic Release Inventory Report under EPCRA Section 313

Certification No.: 263703 Certification Date: 3/25/2013

Mandar Hingwe - Dir. of Quality and Metallurgy

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