

Material Test Report

COFFER
an AFGARbal Company

Heat Code: vvp

An Ameri-Forge Group Company
13770 Industrial Rd. Houston, TX 77045
Sales: (713) 868-4421 Fax: (713) 455-8380

ISO 9001:2008 Certified

PLESA STEEL INC. 12700 NORTHBOROUGH DR STE 646 Houston, TX 77067	PO: 170	Sales Order: 132866	Line: 4
	Item Code: 0603400100-0021F		Qty Shipped: 10
	Item Desc: FLG 04.00 0600 BL RF		
	Supplier: CMC		Supplier Heat: 3038568
Spec: ASTM A105/A105N-(12)/ASME SA 105/SA 105N-(13) Section II Part A - Normalized			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.20				Ni	Nickel	0.13		✓	7440-03-0
Mn	Manganese	1.00		✓	7439-96-5	Cr	Chromium	0.11		✓	7440-03-0
P	Phosphorous	0.011				Mo	Molybdenum	0.042			
S	Sulphur	0.021				V	Vanadium	0.002			
Si	Silicon	0.21				Cb	Columbium	0.000			
Cu	Copper	0.20		✓	7440-50-8	C.E.		0.42			

Mechanical Testing				Heat Treat			
Test Lab	AFG			Norm. Temp. (F)	1675		
Test Bar Size	Sacrificial Piece			Norm. (Hrs)	4		
HEW	149 - 149			Norm. Cooling Type	AIR		
Elg (%)	32			Norm. Location	AFG		
RA (%)	63			Other			
Tensile Specimen Size (in)	.497						
Tensile (ksi)	77.8						
Yield (ksi)	47.6						
Gauge Length	2			MILL	CMC		
				MHC	3038568		
				Country of Origin	USA (US)		
				EF	Y		

Product compliant with NACE MR0175 / ISO 15156 and NACE MR0103 latest edition and dimensions to ASME B16.5 - 2013.
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.
AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and in compliance to PED 97/23/EC, Section 4.3
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.: 291964
Certification Date: 2/18/2014


Mandar Hingwe - Dir. of Quality and Metallurgy

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