

Material Test Report

Heat Code: 2802724

ISO 9001:2008 Certified

An Ameri-Forge Group Company
13770 Industrial Rd. Houston, TX 77015
Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA STEEL INC. 12700 NORTHBOROUGH DR STE 646 Houston, TX 77067	PO: 165	Sales Order: 132599	Line: 1
	Item Code: 0152942100-CG20F		Qty Shipped: 4
	Item Desc: FLG 42.00 0150 SO RF		
	Supplier: MF RINGS		Supplier Heat: 2802724
Spec: ASTM A105/A105M-(12)/ASME SA 105/SA 105M-(13) Section II Part A			

Element	(%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.22				Cr	Chromium	0.01		✓	7440-47-3
Mn	Manganese	0.86		✓	7439-96-5	Mo	Molybdenum	0.004			
P	Phosphorous	0.017				V	Vanadium	0.002			
S	Sulphur	0.014				Cb	Columbium	0.01			
Si	Silicon	0.24				C, E.		0.36733			
Cu	Copper	0.01		✓	7440-50-8	CuNiCrMo		0.026			
Ni	Nickel	0.01		✓	7440-02-0	CrMo		0.014			

Mechanical Testing				Other			
Test Lab		MF RINGS		Fully Killed			Y
Test Bar Size		SACRIFICIAL PIECE					
HBW		159 - 159					
Elg (%)		30.2					
RA (%)		59.5					
Tensile Specimen Size (in)		0.498					
Tensile (ksi)		75.9					
Yield (ksi)		47.5					
Gauge Length		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 USA.
No weld repair performed on this product.
Product compliant with NACE MR0175 / ISO 15156 latest edition and dimensions to ASME B16.47 - 2013 (SERIES A)
AmeriForge manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 97/23/EC, Section 4.3

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.: 292730
Certification Date: 2/26/2014

M. Hingwe
Mandar Hingwe - Dir. of Quality and Metallurgy