

Material Test Report

Heat Code: VNO

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. 5100 WESTHEIMER ROAD PO: 99 | Sal Item Code: 0301910101-0020F

Sales Order: 125620 Line: 5

SUITE 200

Item Desc: FLG 10.00 0300 WN RF STD

Qty Shipped: 10

Houston, TX 77056

Supplier: CMC

Supplier Heat: 3036635

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

Elen	ient (%wt)	Ladie	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
C	Carbon	0.19				Cr Chrom	Lum	0.09		1	7440-47-3
Mn	Manganese	1.00		√ 7	439-96-5	Mo Molybo	ienum	0.05			
P	Phosphorous	0.011				V Vanadi	Lum	0.002			
s	Sulphur	0.022				Cb Columb	oium	0.001			
Si	Silicon	0.22			•	C.E.		0.41			
Сų	Copper	0.27		✓ 7	440-50-8	CuNiCrMo		0.518			
Ni	Nickel	0.11		✓ 7	440-02-0	CrMo		0.138			

Mechanical Te	esting	Other				
Test Lab	AFG	MILL	CMC-TEXAS			
Test Bar Size	Sacrificial Piece	мнс	3036635			
HBW	163 - 163	Country of Origin	UŠA			
Elg (%)	30	EF	¥			
RA (%)	59					
Tensile Specimen Size (in)	.500					
Tensile (ksi)	79.7					
Yield (ksi)	45.9	i				
Gauge Length	2	•				
	•					
		•				
		•				
		21				

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 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 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.:

272756

Certification Date:

7/16/2013

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.6

Mandar Hingwe - Dir. of Quality and Metallurgy