

Material Test Report

Heat Code: HTN

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

ISO 9001:2008 Certified

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

PLESA ANAHUAC Y CIAS SA DE CV AV. VALLE DE LAS ALAMEDAS 66-0 Item Desc: FLG 12.00 0150 BL RF

54940 TULTITLAN, EDO, MEX | Supplier: CMC | Supplier Heat: 3017288

Spec: ASTM A105/A105M-(10)/ASME SA 105/SA 105M-(08a) Section II Part A

Elen	nent (%wt)	Ladle	Product	EPCR	A CAS#	Elem	ent	(%wt)	Ladie .	Product	EPCRA	CAS#
С	Carbon	0.20				Cr	Chromi	ium	0.07		V 7	440-47-3
Mn	Manganese	1.03		✓	7439-96-5	Мо	Molybo	denum	0.02			
P	Phosphorous	0.006				v	Vanadi	ium	0.003			
S	Sulphur	0.022				Ср	Columb	oium	0.001			
Si	Silicon	0.24				C.E.			0.41			
Cu	Copper	0.23		✓	7440-50-8	CuNi	CrMo		0.376			
Ni	Nickel	0.06		✓	7440-02-0	CrMo			0.086			

Mechanical To	esting		Other
Test Lab	AFG	MILL	CMC-TEXAS
Test Bar Size	Test Piece	мнс	3017288
HBW	156 - 156	EF	Y
Elg (%)	30.0	Fully Killed	Y
RA (%)	58.0		
Tensile Specimen Size (in)	.248		
Tensile (ksi)	80.3		
Yield (ksi)	46.5		
Gauge Length	1		
		:	

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. 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. Yield strength was determined using the 0.2% offset method. No weld repair performed on this product.

Product compliant with and meets all requirements of ASTM A105/

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.:

193011

Certification Date:

10/25/2010

Nicholas Tepovich - Metallurgic Lab Manager

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