Material Test Report

Heat Code: 85307

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

PO: 11304 Sales Order: 100764 Line: 17 Item Code: 0151924102-0021F Qty Shipped: 3

Item Desc: FLG 24.00 0150 WN RF XH

54940 TULTITLAN, EDO, MEX

Supplier Heat: 85307

Spec: ASTM A105/A105N-(10)/ASME SA 105/SA 105N-(08a) Section II Part A - Normalized

Supplier: MELESI

Elen	nent	(%wt)	Ladle	Product	EPCF	A CAS#	Elem	ent	(%wt)	Ladle	Product	EPCRA	CAS#
Ç	Carbon)	0.19	* <u> </u>			Ni	Nickel		0.06		√ -	7440-02-0
Mn	In Manganese 0.82			√ 7439-96-5		Cr	Cr Chromium		0.19		✓ ;	1440-47-3	
P	Phosphorous		0.015				Mo	Mol.ybde	enum	0.010			
S	Sulphu	ır	0.015				v	Vanadiı	ım	0.004			
Si	Silico	on	0,260				Cb	Columbi	.um	0,001			
Cu	Cu Copper		0.17		✓	7440-50-8	C.E.			0.3828			
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Mechanical T	esting	**************************************		
Test Lab	MELESI	Norm. Temp. (F)		1652
Test Bar Size	SACRIFICIAL PIECE	Norm. (Hrs)		.5 HR PER INCH
HBW	155 ~ 158	Norm, Cooling Type		AIR
Elg (%)	29.0	Norm. Location		MELESI
RA (%)	63.0	•		
Tensile Specimen Size (in)	0.498	į	Other	
Tensile (ksi)	75.5	ΔD		Y
Yield (ksi)	48.1	EF		Y
Gauge Length	2	•		
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		1		
		•		

Product compliant with NACE MR0175 and NACE MR0103 latest edition and dimensions to ANSI B16.5 - 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. 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 welding performed.

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. Parl 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.:

219903

Certification Date:

10/4/2011

Nicholas Tepovich - Metallurgic Lab Manager

Violadas Teparal

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