Material Test Report

COFFER® an AFGN Dal Company

Heat Code: 424040

Coffer Corp.

An AFGlobal Company

13770 Industrial Rd. Houston, TX 77015

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

	15O 9001;2008 Certified		295 Line: 4
PLESA STEEL INC. 000120	15 PO: 282	Sales Order: 14	0250
11811 NORTH FRWY STE 500	Item Code: 0151916102-002	OF	Qty Shipped: 10
Houston, TX 77060	Item Desc: FLG 16.00 0150		
	Supplier: FORGITAL	Supplier	Heat: 424040
Spec: ASTM A105/A105M-(13)/A	SME SA 105/SA 105M-(13) Se	ction II Part	A

Flet	ment	(%wt)	Ladle	Product	EPCRA	CAS#	Element (%wt)	Ladle	Product	EPCRA	ĊAS#
C	Carbo		0.16	110000		-	: Cr Chromium	0.10	Andrew State of the State of th	1	7440-47-3
Mn	Manga	nese	1,23		1	7439-96-5	Mo Molybdenum	0.01			
P	Phosp	horous	0.008				V Vanadium	0.072			
S	Sulph	ur	0.002				Cb Columbium	0.001			
Si	Silic	on	0.23				C.E.	0.41			
Cu	Сорре	r	0.2		✓	7440-50-8	CunicrMoV	0.452			
Ni	Nicke	1	0.07		✓	7440-02-0	CrMo	0.11			
							;				

Mechanical 1	resting	Other			
Test Bar Size	SACRIFICIAL PIECE	VD	Y		
HBW	159 - 159	EF	Y		
Elg (%)	35.6				
RA (%)	66				
Tensile Specimen Size (in)	.500				
Tensile (ksi)	75				
Yield (ksi)	45				
Gauge Length	2	İ			

Product compliant with NACE MR0175 / ISO 15156 latest edition and flange dimensions to ASME B16.5 - 2013

* No Weld repair performed.

* Ladle Chemical Analysis results are reported from the raw material suppliers MTR.

* 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 equipment was used in manufacturing, fabrication or testing. mercury bearing

* When reported on MTR: Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10; Charpy Testing Per ASTM E23

* AF Global manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 97/23/EC, Annex 1, Section 4.3

The recording of false, fictitious, or fraudulent statement or entries on this document may be punishable as a felony under federal statute.

EPCRA Suppiler 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 1969) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chamical 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.:

1142770

Certification Date: 10/2/2014

Issued By:

Juan Diaz

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

Rina Sane - Metallurgical Lab Manager