Material Test Report

COFFER* an AFGINDA Company

Heat Code: YXP

Coffer Corp.

An AFGlobal Company

Line: 10

13770 Industrial Rd. Houston, TX 77015

ISO 9001:2008 Certified

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

PLESA STEEL INC. 00012015 PO: 282 11811 NORTH FRWY STE 500

Item Code: 0301400101-0020F

Sales Order: 140295 Qty Shipped: 20

Houston, TX 77060

Item Desc: FLG 04.00 0300 WN RF STD A105 NHT COFFR

Supplier: CMC-TEXAS

Supplier Heat: 3049542

Spec: ASTM A105/A105M-(13)/ASME SA 105/SA 105M-(13) Section II Part A

Eler	nent (%wt)	Ladle	Product	EPCRA	CAS#	Element	(%wt)	Ladle	Product	EPCRA	CAS#
	Carbon	0.18				Cr Chromit	am.	0.11		√	7440-47-3
in	Manganese	0.99		1	7439-96-5	Mo Molybde	enum	0.02			
	Phosphoreus	0.010				V Vanadi	om	0.001			
	Sulphur	0.016				Cb Columb:	ium	0.001			
í	Silicon	0.23				C.E.		0.39			
u	Copper	0.26		/	7440-50-8	CuNiCrMoV		0.478			
í	Nickel	0.09		1	7440-02-0	CrMo		0.127			
						:					
						:					

Mechanica	Testing	
Test Lab	AFG	
Test Bar Size	Sacrificial Piece	
HBW	170 - 170	
Elg (%)	30	
RA (%)	50	
Tensile Specimen Size (in)	.493	
Tensile (ksi)	82.2	2
Yield (ksi)	49	
Gauge Length	2	

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 mercury bearing equipment was used in manufacturing, fabrication or 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 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.:

1155339

Certification Date: 11/12/2014

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