

MILL TEST CERTIFICATE  
ISO9001:2008/ EN10204 3.1

CUSTOMER: TW METALS

P.O.:US-2437

TW ORDER NO.M49406289

GRADE : ASTM A213M-18b ; ASME SA213/SA213M-17 AVG WALL

ASTM A269/A269M-15A TP316/316L

COMMODITY: STAINLESS STEEL SEAMLESS TUBE

CONDITION: COLD FINISH /SOLUTION TREATED/PICKLED/PLAIN END/OD POLISHED 240 GRIT.

CERTIFICATE NO.:TC2019091818

HEAT NO. : 11W223

CHEMICAL COMPOSITION (%)

ELEMENTS	C	Si	Mn	P	S	Ni	Cr	Mo	Ti	Cu	N	Co
MIN						10	16	2				
MAX	0.035	1	2	0.045	0.03	14	18	3				
RESULTS	0.019	0.40	0.89	0.033	0.001	10.09	16.68	2.09				

PHYSICAL PROPERTIES

OD (INCH)	W.T (INCH)	LENGTH (FT)	Quantity		Y.S.0.2% (MPa)	T.S (MPa)	Tensile Properties		Flattening	Flaring	Grain Size	Hydrostatic	I.C.T A262E	EDDY CURRENT TEST (100%)
			FT	KG			EL	HRB						
0.375	0.035	20	52800	3156	295	595	≥35(%)	80max	OK	OK	OK	/	OK	OK
0.250	0.065	20	3640	212	275	575	64	75	OK	OK	OK	/	OK	OK
0.375	0.049	20	8800	680	285	580	64	75	OK	OK	OK	/	OK	OK

REMARKS:

IN COMPLIANCE TO NACE MR0175-2015/MR0103

SOLUTION HEAT TREATMENT :1050°C X 1.5m/min

NO WELD REPAIR WAS PERFORMED

FREE FROM MERCURY CONTAMINATION

FREE FROM RADIATION CONTAMINATION

IC TESTING ACCORDANCE TO ASTM A262 E-SATISFACTORY

MELT AND MANUFACTURE COUNTRY: CHINA

RoHS COMPLIANT

PMI TESTING DONE.

MATERIAL TEST CERTIFICATES TO EN 10204/3.1

MATERIAL COMPLIANT WITH ISO 9001:2008

THE FOLLOWING CLAUSES ARE NOT APPLICABLE;

~ FAR BAA(FAR 52.225-1 BUY AMERICAN ACT-SUPPLIES)

~ DFARS BAA(DFARS 252.225-7001 BUY AMERICAN ACT & BAL. OF PAYMENTS PROG

~ FAR TAAI (FAR 52.225-5 TRADE AGREEMENTS)

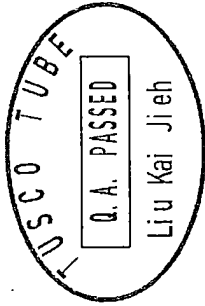
ALL MATERIAL PROVIDED UNDER THIS PURCHASE ORDER IS FREE OF

CONFLICT MINERALS IN ACCORDANCE WITH THE DODD FRANK ACT SECTION 1502

ADD: ZHONGXIN ROAD, XUE'AN INDUSTRY PARK, RUGAO CITY, JIANGSU PROVINCE

1. WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND THE TEST RESULTS ARE IN COMPLIANCE WITH THE TERMS OF THE PURCHASE ORDER OR CONTRACT OF TW METALS  
PO#M49406289

2. THE CERTIFICATE SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF TUSCO TUBE.



MANAGER OF QUALITY ASSURANCE DEPARTMENT

161 Tower Drive Suite: E  
Burr Ridge, IL 60527  
(630) 230-3400 Fax#:- 3408

## Certificate of Conformance/Compliance

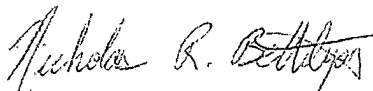
Mistras Job #: G28309-40864956  
Customer: LE Commodities / TW Metals  
Purchase Order: Credit Card  
Customer Job: Tusco PMI Verification  
Job Description: Material Identification & Sorting

MISTRAS Services Division, Inc. certifies that the services performed conform to the requirements of Mistras' Quality Assurance Program, 100-QAP-001(Rev10) and the terms outlined below:

1. Positive Material Identification performed by Mistras on a pass/fail basis, to sort non-conforming material from the 316 stainless steel material lots.
2. TW Metals personnel provided counts of material and tracked totals by Tags & Heat numbers.

### Lot Information:

PO#: 49406289  
Item: 36246  
Heat #: 11W223  
Tag(s) #: 585062, 585264  
Quantity of Conforming Material: 2230



Nicholas R. Bettilyon  
Operations Manager

March 14th, 2021  
Date