Alema Product Area Tube

Alleima USA LLC

MATERIAL CERTIFICATE

13.04

982 Griffin Pond Rd, Clarks Summit, PA 18411, PA US 18411, Ph: 570-585-7500

Cert#: 2300006923

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Plant Location: 982 Griffin Pond Road, Clarks Summit, PA 18411 Sold To: 8801 Ship To:

Alleima Tube AB (0140)

ALLEIMA BENELUX B.V.

SANDVIKEN SE

SANDVIKEN SE

Customer Order No: 32490

Certification Date: 20231114

Alleima Order No: 390958/29

Work Order/Lot: 311569

ASTM A213-22a, ASME SA-213, ASTM A269-22, ASME Section II 2023 Edition, NACE MR0175/ISO 15156, 4th Edition 2022-09-21

(Austenitic), Saudi Aramco Materials System Specification 01-SAMSS-047, 21 February 2023 Issue

Cold Finished BRIGHT ANNEALED Seamless Tube Type 3R60 TP316/TP316L 1.4435

Size: 12.70MM X 2.11MM Heat: 568456 ANALYSIS % C Si Mn P Cr Ni .018 Heat .45 1.64 .030 .009 17.37 13.09

.46 Prod .018 1.63 .029 .007 17.36 Fe Mo Cu Al Pb N Heat 2.61 .30 .005 .041 Prod .30 2.59 .005 .049

Mechanical Tests: Yield Strength Tensile

Elongation Reduction 1.0% Strength in % Of Area psi MPa psi MPa psi MPa E2" E10" E4d E5d ક્ર 43000 296.6 N/A 85000 586.2 50 N/A N/A N/A N/A 42200 291.0 86000 593.1 55

Hardness Test Results: 83HRBW, 80HRBW

Flare Test per ASTM A450/A1016 and ASME SA450/SA1016,

No. samples: 2 Result: Acceptable Flattening Test per ASTM A450/A1016 and ASME SA450/SA1016: Acceptable

Tensile Test sample width (1=Full-Size 2=1/2" Strip): 1 This material complies with DFARS 252.225-7001 (2017)

This material does not comply with DFARS 252.225-7008 (2013)

This material complies with DFARS 252.225-7009 (2019)

This material does not comply with FAR 52.225-1 (2021)

This material complies with FAR 52.225-5 (2019)

Corrosion Test per ASTM A262 Pr.E: Acceptable

Country Of Origin: United States

100% Positive Material Identification performed All material subjected to a final solution annealing heat treatment with material at a temperature of 1900 deg. F minimum followed by rapid quenching to below 800 deg. F in less than three (3) minutes.

The material has not come in contact with Mercury or Mercury containing compounds.

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No welding has been performed on this material. Material was 100% eddy current tested in accordance with ASTM A450, ASTM A1016 and is acceptable. Material manufactured in compliance with Annex 1, Paragraph 4.3 of the Pressure Equipment Directive (2014/68/EU). LRQA Certificate number 0343/HOU/PED/PRJ11100408980. Material has been manufactured/supplied in accordance with Alleima USA, LLC-Quality Manual- Commercial Products Revision 5 dated July 6, 2023. Quality system has been approved to ISO 9001:2015 (Cert# 10544864, 8AUG23) No unauthorized alterations. The content of this inspection certificate may not be modified or revised in any way without the prior written approval of Alleima USA, LLC Unauthorized alterations to the inspection certifiate, including introduction of false, ficticious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. Contravention of this notice will be prosecuted to the fullest extent of the applicable laws. Inspection certificate produced in accordance with EN 10204 3.1 (formerly EN 10204 3.1.B). No unauthorized alterations. The contents of this Inspection Certificate may not be modified or revised in any way without the prior written approval of Alleima USA , LLC Unauthorized alterations to the Inspection Certificate, including introduction of false, fictitious or fraudulent statements or entries, may be punishable by fines, imprisonment, or both. This Inspection Certificate may be copied only in the manner and for the purposes specified in EN 10204:2004, Section 6. Contravention of this notice will be prosecuted to the fullest extent of the applicable law(s). This is to certify that the contents of this certificate are correct and accurate as contained in Alleima's records, and that all above test results and operations performed are in compliance with the requirements of the purchase order and the specification(s) listed above.

Electronically Generated Certificate-Valid without signature John Scherer, Quality Manager 15 (ARAMCO 3R60 R1) (15) CF (JN0491)