



KHK

KHK Steel Industries LLC

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Plot No. 0637, Sector 05
 Umm Al Thuob
 Umm Al Quwain, UAE
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Test Certificate

Customer

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T.C.No. 109712
 Date 20/09/2022

Your PO Reference
 LA3688

KHK OC Reference
 SRMD-100903 - 01/04/2022 - -

Container number
 FCIU6306066

Invoice No. ARI-101468

Material

Stainless Steel Bright Bars
 CD/PO

Grade 316/316L Length 12' 12' 2"
 Size 1/2" Tolerance ASTM A484
 Qty 3410 LBS Bundles 3

Bundle Nos : KS42037, KS42038, KS42039

Specification

ROHS compliant; ASTM A182/A182M-16a, ASTM A193/A193M-16 (B8M,Class1),
 ASTM A276-17, ASTM A320/A320M-15a (B8M,Class1), ASTM F899, ASTM A370-11a.
 ASTM A479/A479M-20, EN 10204 3.1, ASME SA479/SA479M-15,
 ASME SA193/SA193M-15 (B8M,Class1), ASME SA320/SA320M-15(B8M,Class1)
 AMS-QQS-763D (Condition A), AMS 5648M, AMS 5653J, UNS-S-31600 / UNS-S-31603
 MATERIAL IS IN ACCORDANCE WITH NACE MR0175 2003, NACE MR0103-2015

Chemical Analysis

Heat No.	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Co	N
6Q873	0.021	1.490	0.620	0.031	0.0236	16.790	10.140	2.040	0.550	0.210	0.0471

Mechanical Properties & Metallography

Tensile Strength PSI	0.2% Yield Strength PSI	1.0% Proof Stress PSI	Elongation %	RA %	Hardness HB	Average Grain Size ASTM E112-88	Solution Annealing Temp.(C)
107,846	94,222	-	41	70	220	-	1050

Remarks

Macro & Micro structure : Satisfactory. Free from Mercury Contamination.
 No weld repairs performed. Free from Cuban Nickel.
 Free from Intergranular corrosion as per ASTM A262-15, Practice A & E.
 Melt Practice : EAF > CONVERTOR > VOD > CC.
 Hot Working Practice : Hot Rolled
 Annealing Time : 90 Minutes and water cooled for HRAP Wire rod.
 Country of Manufacturer : United Arab Emirates
 Melt source : Walsin, Taiwan; Melt Source have PED/23/EC & AD 2000 Merkblatt W0.

We certify that the above materials are satisfactory in quality in compliance with the requirement specified in the order.

Signature
 Quality Control
 (QA Engineer)
 KHK Steel Industries LLC