



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. 113070

Date 16/05/2023

Your PO Reference  
LA8137KHK OC Reference  
SRMD-101246 - 10/01/2023 - -Container number  
MEDU5083551

Invoice No. ARI-101913

### Material

Stainless Steel Bright Bars  
CD/PO

Grade 316/316L      Length 12' 12' 2"  
Size 1/2"            Tolerance ASTM A484  
Qty 2134 LBS       Bundles 2

Bundle Nos : KS52615, KS52617

### 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
08001	0.020	1.740	0.260	0.039	0.026	17.100	10.070	2.070	0.810	-	0.066

### 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)
108,445	88,569	-	43	72	218	-	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 : Panchmahal, India; 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  
Sandip Shah  
(QA In-charge)  
KHK Steel Industries LLC