



KHK Steel Industries LLC

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

Customer

T.C.No. 114971
Date 31/10/2023

Your PO Reference
LB1351

KHK OC Reference
SRMD-101559 - 10/07/2023 - -

Container number
HLXU1063900

Invoice No. ARI-102211

Material

Stainless Steel Bright Bars
CD/PO

Grade 316/316L

Length 12' 12' 2"

Size 1/2"

Tolerance ASTM A484

Qty 3994 LBS

Bundles 4

Bundle Nos : KS57343, KS57344, KS57345, KS57378

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
S9792	0.020	1.460	0.370	0.037	0.027	16.520	10.050	2.020	0.360	-	0.0680


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)
108,868	91,298	-	40	67	221	-	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 : Mukand, 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.


Sandip Shah
(QA Incharge)
KHK Steel Industries LLC