



KHK STEEL

KHK Steel Industries LLC

Tax ID (VAT) 100044174900003
Website : www.khk-stainless.com

Plot No. 0637, Sector 05
Umm Al Thuob
Umm Al Quwain, UAE
Phone No : 00971 6 525 0995
Fax No : 00971 6 743 9017

Test Certificate

Customer

--

T.C.No. 113306

Date 31/05/2023

Your PO Reference
LA8139KHK OC Reference
SRMD-101248 - 10/01/2023 - -Container number
FTAU1478139

Invoice No. ARI-101941

Material

Stainless Steel Bright Bars
CD/PO

Grade 316/316L

Size 1/4"

Qty 4444 LBS

Length 12' 12' 2"

Tolerance ASTM A484

Bundles 4

Bundle Nos : KS53458, KS53459, KS53460, KS53461

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	-	-	0.066

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)
109,104	93,121	-	40	70	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 : 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
Saidip Sadiq
(Q.A. Incharge)
KHK Steel Industries LLC