



# KHK Steel Industries LLC

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

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

## Test Certificate

<b>T.C.No.</b>	115901
<b>Date</b>	31/01/2024
<b>Your PO Reference</b>	LB2432
<b>KHK OC Reference</b>	SRMD-101675 - 11/09/2023 - -
<b>Container number</b>	TEMU1367742
<b>Invoice No.</b>	ARI-102452

### Material

Stainless Steel Bright Bars  
CD/PO

**Grade** 316/316L **Length** 12' 12' 2"  
**Size** 3/4" **Tolerance** ASTM A484  
**Qty** 3024 LBS **Bundles** 3

**Bundle Nos :** KS61630, KS61631, KS61632

### 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
N0596	0.022	1.520	0.320	0.039	0.026	17.010	10.130	2.000	0.420	-	0.0460

### 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)
91,904	75,614	-	44	75	185	-	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