

**MILL TEST REPORT**

**TA CHEN INTERNATIONAL, INC.**

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Cust#: ESCPOR Company#: SAMUEL, SON & CO., INC.  
 MTR#: KMRB/KMRB00448-5.pdf PO#: 041B-7524744 SO#: LJYLS3  
 Item:RB6L0056 Bundle:KS29749 Heatno:6L237

KMRB00448-5



**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  
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**Test Certificate**

**Customer**  
 TA CHEN INTERNATIONAL, INC.  
 11101 S.Tacoma Way, Suite C  
 Lakewood, WA 98499, US

**T.C.No.** 107606  
**Date** 31/01/2022  
**Your PO Reference**  
 L99913  
**KHK OC Reference**  
 SRMD-100626 - 07/09/2021 - -  
**Container number**  
 UACU3947485  
**Invoice No.** ARI-101004

**Material**  
 Stainless Steel Bright Bars  
 CD/PO  
**Bundle Nos :** KS29749

**Grade** 316/316L  
**Length** 12' 12' 2"  
**Size** 7/8" **Tolerance** ASTM A484  
**Qty** 1272 LBS **Bundles** 1

**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 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
6L237	0.020	1.480	0.600	0.027	0.0256	16.770	10.070	2.010	0.420	0.180	0.0473

**Mechanical Properties & Metallography**

Tensil 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)
91,111	76,122	-	48	74	186	-	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.

663940  
**QC ACCEPTED**  
 DATE 1/10/23  
 NTLS M

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

Signature: \_\_\_\_\_  
 Sandip Chak  
 QA Manager  
 KHK Steel Industries LLC