

HT# CH-1864

C12757


CHANDAN STEEL LIMITED
 (GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2005 CERTIFICATE No. 04100 011022-ES

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I/c. No.:

I/c. Date:

F824 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
 ACCORDING TO EN 10204 : 2005

Consignee ASA ALLOYS 81 STEINWAY BOULEVARD ETOBICOKE, ON M9W 6H6 CANADA CANADA						Test Certificate No. : EXP/01307 - 21/2014-2015 Date of Issue : 03.03.2015 P.O.No. : PO34830 SC_No. & Date : 14-15/00692, Dt.16.02.2015 Invoice No. & Date : EXP/01307/2014-15 Dt.03.03.2015					
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS						LENGTH		Net Wt.			
						Ordered	Actual	2107 Lbs.			
Heat No.		Grade AISI	Size mm/inches	Tolerance	Process Route						
CH-1864		316L	2-1/2"	h9/EN 10278	Electric Melting, A.O.D. Refining, Continuous Casting						
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N
Min.	-	-	-	-	-	16.00	2.00	10.00	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	18.00	3.00	14.00	-	-	-
Results	0.027	0.27	1.81	0.039	0.023	16.75	2.05	10.18	-	-	-
MECHANICAL PROPERTIES											
Specified	Yield Strength		Tensile Strength		Elongation	Reduction of Area		Hardness			
Value	N/mm ² /MPa (Rp0.2)		N/mm ² /MPa (Rm)		%	%		(HB)			
Min.	170		485		30	40		-			
Max.	-		-		-	-		-			
Results	290		595		54	72		187-190			
Remarks:											
1. Smooth Turned and Polished.						2. Solution annealed at 1050 °C.					
3. PMI test done 100% & found Satisfactory.											
4. The material is fully killed and calcium treated.											
5. Material is free from radio-active contamination.											
6. The material hardness is in Accordance with NACE MR 0175-2009.											
7. The material conforms to ASTM A276-13, ASME SA 182-10, ASME SA - 479-10, EN 10272-2008, AMS-QQ-S-763E & AMS - 5648K Specifications.											
8. Approved acc. to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg. no.:0045)											
9. Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Round.											
10. Marking details - Company Logo, Size, Grade & Heat No.											
11. The material is manufactured/melt in Chandan Steel Mill and is of Indian Origin.											
12. No welding/weld repairs was performed on this material.											
BUNDLE NO.: 8 & 9						COLOUR : GREY					

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
 MANAGER - QUALITY ASSURANCE