

REF. CD:SG1304

147 Jeokhyeon-ro, Seongsan, Changwon, Gyeongnam, Korea

INSPECTION-CERTIFICATE

MANUFACTURE NO. : KR2AD20AA3020



STEEL GRADE :	630
S I Z E :	DIAMETER 41.28 MM
ARTICLE :	ROUND BARS

SPECIFICATION :	ASTM A564
EDITION/ADDENDA :	02A
STATE OF DELIVERY :	SOLUTION & AGING(H1075) SMOOTH TURNED

MELTING PROCESS : E.A.F.
V.O.D.
INGOT CASTING

Heat No.		Chemical Composition(wt.%)														Non-Metallic Inclusion Test										
		C	SI	MN	P	S	NI	CR	MO	CU									ASTM-E45							
Spec.	MIN.						3.000	15.000		3.000									TA	TB	TC	TD	HA	HB	HC	HD
	MAX.	.070	1.000	1.000	.0400	.0300	5.000	17.500		5.000									0.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0
N03011		.032	.416	.647	.0266	.0019	4.099	15.177	.086	3.157																

Test No. (Lot No.)		Tensile Properties				Hardness		Impact Test			Decarburized Depth (mm)		Grain Size No.	Additional Tests	
		Y.S.(KSI)		T.S (KSI)	EL. (%)	R.A. (%)	Body HRc	CHARPY-V						Ultrasonic test: GOOD	
		0.2%						+25°C			FT-LB		TOTAL	FERR.	
Spec.	MIN.	125.0		145.0	13.0	45.0	32.0				20				
	MAX.														
9000-1		157.0		161.0	17.0	64.0	35.4	61	56	56			8.0		

Lot No.	Bundle No.	Length (mm)	Number of Qt.	Weight		Additional Tests / Remarks
				Kg	lb	
3045179000	30451790001	6000	18	1,124	2,478	LADLE(%): NB+TA 0.2751 Solution : 1040°C, 1:00Hrs, Fan cooling Aging : 580°C, 4:30Hrs, Air cooling ROLLING RATIO = 267:1 EN 10204 Type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION.
3045179000	30451790002	6000	17	1,062	2,341	
		TOTAL	35	2,186	4,819	<div>CERTIFIED TRUE COPY  SIN GHEE HUAT CORPORATION LTD.  General manager, Quality Technology Department DATE : AUG. 30, 2013</div>

We here certify, that the material described above has been tested and complies with the terms of the order contract.
Our quality system is certified in accordance with
ISO 9001: 2008 by DNV.