CUSTOMER :

SIN GHEE HUAT CORPORATION LTD

SUPPLIER :

REF.CD:SG1304

HYO SUNG CORP.

PURCHASE ORDER NO. :

SG1304

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

INSPECTION-CERTIFICATE

CERT. NO.

130729-2122

MANUFACTURE NO. :

KR2AD20AA3040

SPECIFICATION

EDITION/ADDENDA

STATE OF DELIVERY :

ASTM A564

SPECIALTY STEEL

02A

MELTING PROCESS :

Additional Tests

E.A.F.

V.O.D.

INGOT CASTING

STEEL GRADE	;	630	
SIZE	:	DIAMETER 57.15 MM	
ARTICLE	:	ROUND BARS	

SOLUTION & AGING(H1075) SMOOTH TURNED

Heat	Mn	Chemical Composition(wt.%)										100 100 2009			
Haze no.		C	C SI	MN	Р	S	NI	CR	MO	CU	Non-Metallic Inclusion	n Test			
Spec.	MIN.						3.000	15.000		3.000	ASTM-E45				
Spec.	MAX.	.070	1.000	1.000	.0400	.0300	5.000	17.500		5.000	TA TB TC TD HA HB	HC HO			
N030	011	.032	.416	.647	.0266	.0019	4.099	15.177	.086	3.157	0.5 0.0 0.0 1.0 0.0 0.0				

Test	No	Ter	sile Propertie	Hardness	3 1	Impact Test			Decarburized		Ac		
(Lot No.)		Y.S.(KSI)	T.S	EL.	R.A.	Body	CHARPY-V			Depth (mm)		Grain Size	Ultrasonic test: GOOD
(201	110.7	0.2%	(KSI)	(%)	(%)	HRc	+25%	0	FT-LB	TOTAL FERR.	No.		
Spec.	MIN.	125.0	145.0	13.0	45.0	32.0		20					
Spec.	MAX.												
6000-1		155.0	160.0	17.0	62.0	35.6	36	48	34			7.5	+

Weight

1,788 3,942

Lat No.	Bundle No.	Length (mm)	Humber	notgitt		
COT 110.	Daliale No.	raugin (mm)	of Qt.	Kg	lb	
3045186000	30451860001	6000	15	1,788	3,942	

TOTAL

15

Additional Tests / Remarks

LADLE(%): NB+TA 0.2751

Solution: 1040°C, 1:20Hrs, Fan cooling Aging: 580°C, 4:30Hrs, Air cooling CERTIFIED TO ASME SA564 630 H1075

EN 10204 Type 3.1 / NO REPAIR WELDING, FREE FROM MERCURY CONTAMINATION.

CERTIFIED TRUE COPY

SIN GHEE HUAT CORPORATION LTD.

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.

General manager, Quality Technology Department

DATE: JUL. 29, 2013