147 Jookhycon-ro, Scongsan, Changwon, Gycongnam, Korea

INSPECTION-CERTIFICATE

CERT. NO. 30625-2196 MANUFACTURE NO. : KR0A020BA2150

CUSTOMER: SIN GHEE HUAT CORPORATION LTD SUPPLIER: HYO SUNG CORP.

PURCHASE ORDER NO. :

5028430

DIAMETER 165.1 MM

AEF.CD:5028430

SIZE

STEEL GRADE : 410

- 1 ROUND BARS ARTICLE

SPECIFICATION

ASTM A276

EDITION/ADDENDA : 06 STATE OF DELIVERY :

FULL ANNEALING

ROUGH TURNED

MELTING PROCESS:

E.A.F. V.O.D.

INGOT CASTING

licat No.			Chemical Composition(wt.%)														Non-Hotellie Industry Tons								
		C	SI	MN	Р	S	NI	CA	MO	CU						1	Non-Metallic Inclusion Test								
Spoc.	MIN.	.080						11.500												ASTM	-E45				
	MAX.	150	1.000	1.000	.0400	.0300		13.500									TA	TB	TC	TO	HA	HB	HC	HD	
N024	36	. 126	363	,590	.0266	.0035	.310	11.838	.073	.111							0.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	

lest No. (Lot No.)			Tensile	Propertie	S		Har dnoss		Impact Test		Decart	Oecarbur i zed		Additional Tests			
		Y.S.(KSI)		1.8	EL.	R.A.	Body				Depti	n (mm)	Size	Ultrasonic test: G000			
(101)	10.7	0.2%		(KSI)	(%)	(%)	HB				TOTAL	FERR.	No.	CERTIFIED TRUE			
Spec F	MIN.	40.0		70.0	20.0	45.0								OZIVII IZA			
	MAX.																
0000	-1	44.0		85.0	33.0	73.0	162							4			
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..... SIN GHEE HUAT CORPORATION LTD.

		1 1				SIN GREE HOAT CORPORATION ETC.					
Lot No.	Bundle No.	Length (mm)	Number	Weight		Additional Tests / Remarks					
			of Qt.	KΩ	lb) The state of the					
3019520000	30195200001	4270 - 4300	2	1,426	3,144	EN 10204 Type 3.1 / NO REPAIR WELDING, FREE FROM MERCURY CONTAMINATION. CERTIFY TO ASTM A276/A479, ASME SA276/SA479 INSPECTION CERTIFICATE EN10204 3.1 HARDNESS ACCORDING TO NACE MR0175 & NACE MR0103 MELTING & MANUFACTURING FROM SOUTH KOREA CONDITION: ANNEALED FREE FROM MERCURY CONTAMINATION THE QUALITY MANAGEMENT SYSTEM IS CERTIFIED ACC. PRESSURE EQUIPMENT DIRECTIVE [97/23/EC] ANNEX 1,S.,4.3 BY TUEV AND LLOYO'S					
						We here certify, that the material described above has been					
						tested and complies with the terms of the order contract,					
		TOTAL	2	1,426	3, 144	Our quality system is certified in accordance with General manager, Quality Technology Department ISO 8001: 2008 by DNV. DATE: JUN 26, 2013					
						ISO 8001: 2008 by ONV. DATE: JUN. 26, 2013					