

## INSPECTION CERTIFICATE

Date : 2019-06-01  
Cert. No. : 190531-2270

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Steel Grade : 630 H1075  
Size : DIAMETER 76.2 MM  
Article : ROUND BARSSpecification : ASTM A564  
Edition/Addenda : 13  
Delivery Condition : SOLUTION & AGING  
SMOOTH TURNED  
Melting Process : E.A.F. - V.O.D. - INGOT CASTINGCustomer : SIN GHEE HUAT CORPORATION LTD  
Supplier : HYOSUNG INC CORPORATION  
Purchase order No : P004111

Heat No. : N18336

Inspection Items	Chemical Composition (wt %)										Nonmetallic Inclusion (ASTM E45)							
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	B	(Method A)							
Spec.	Min.										A(T)	A(H)	B(T)	B(H)	C(T)	C(H)	D(T)	D(H)
	Max.																	
Ladle	0.070	1.000	1.000	0.0400	0.0300	5.000	5.000	17.500		0.1500								
	0.022	0.376	0.800	0.0264	0.0042	3.114	4.445	15.148	0.117	0.2086								

Inspection Items	Tensile Test (MPa)				Hardness (HRC)		Impact Test (J)					Decarburized Layer		Grain Size	Micm Structure	Ultrasonic Test
	YS0.2%	TS	EL (%)	RA (%)			Type	TEMP (°C)	L-IV	L-IV	L-IV	L-AVE	DM-T	DM-F		
Spec.	Min.															
	Max.															
9700-1	1140.0	1170.0	16.0	63.0		32		25	27	27	27	27			7.0	
						37.2		25	61	48	68	59				GOOD

Lot No.	Bundle No.	Length(mm)	Number of Qt	Total Length	Weight (kg)	Weight (lb)	Case No.	Remark
A910639700	A9106397001	6000 - 6000	4		858	1,892		EN 10204 type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION. 07:NB+TA ROLLING RATIO : MIN. 6:1 MECHANICAL PROPERTIES TESTED ACC. TO ASTM A370, IMPACT TESTED ACC. TO ASTM E23 UT TESTED ACC. TO ASTM A388, UT ACCEPTANCE CRITERIA AS PER API 6A PSL-3 OR EQUIVALENT FERRITE CONTENTS : LESS THAN 5% (TESTED ACC. TO AMS 2315) GRAIN SIZE TESTED ACC. TO ASTM E112 SOLUTION : 1040°C, 30MIN/INCH, FAN COOL. AGING : 580°C, 30MIN/INCH + 4HRS, AIR COOL. CERT. TO ASME SA564 630 H1075
TOTAL				4	858	1,892		

CERTIFIED TRUE COPY

SIN GHEE HUAT CORPORATION LTD.

We hereby certify that the material described herein has been made in accordance with the rules of the contract.  
Our quality system is certified in accordance with ISO 9001: 2015 by DNV GL.Certified by *Young Seung Lee*

Manager of Quality Assurance Team.