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SeAH Changwon Integrated Special Steel 147 Jeokhyeon-ro, Seongsen, Changwon, Gyeongnam, Korea

INSPECTION CERTIFICATE Date : 2019-04-02 Cert. No. : 190331-2046



Steel Grade : 410

: DIAMETER 76.2 MM

Article

Size

: ROUND BARS

Specification Edition/Addenda : ASTM A479

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Delivery Condition

: FULL ANNEALING

SMOOTH TURNED

Customer: SIN GHEE HUAT CORPORATION LTD

Supplier : HYOSUNG TNC CORPORATION Purchase order No : P003202

Heat No.	: N176	02				Melting Process : E.A.F V.O.D STRAND CASTING							iase orde	rNo	: P	00320	12												
Imama adia -	ļ	Chemical Composition (wt %)																	Nor	nn etall	in Inch		TM E45						
Inspection Items	c	Si	Mn	P	s	Cu	Ni	Cr	Mo															(Meth	ed A)	100212000			
Min.		-	 -	-			i		<u> </u>			- 1				1	1	1		A(T)) A(H)	B(T)	B(H)	C(T)	C(H)	D(T)	D(H	
Spec. Max.	0.150	1.000	1.000	0.0400	0.0300		0.500	11.500	(1)					1		į	ļ	į	i		1	1						Ī	
Ladle	0.141	0.409	0.596	0.0265	0.0105	0.132	0.472	11.802	0.148							·}	+	- 	†	1,5		7	2.0	.0	2.0	.0	1.0	.0	
Inspection Items	Tensile Test (N/mm²)								Hardness (HB)				Impact Test Deca						arburiz	rburized Layer			n II r	Micro		<u> </u>			
	YS0.2	%	TS	EL(%)	RA(%)					г							DM-T DM-F			Size		ructure	Ultrasonic Test						
Spec. Min.	275		485	20	45	1	_		-			Type		-	- i-		-	+-	DN	4-T	DM-	F		-					
4501-1	320.		620.0	31.0	75.0				223									!		- 1									
Lot No.	Bundl	le No.	Len	gth(mm)	Num	ıber	Total		Weight	Weight	Case	N. CSR	emark>>	EN 103	204 Ty	pe 3.1	/ NO R	EPAIR V	VELDIN	G. FRE	EE FR	OM N	#FRCI	IRV (Y	NT A M		GOOD		
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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 Seans Lee

Manager of Quality Assurance Team.