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

INSPECTION CERTIFICATE

Date : 2021-02-09
Cert. No. : 210208-2406
Made in Korea
Melted and poured in the Republic of Korea

Steel Grade : SKD61
Heat No. : N22851
Size : DIAMETER 40 MM
Commodity : ROUND BARS

Specification(Ed/Add) : JIS G4404 (2006)
Melting Process : E.A.F. - L.F.& V.D. - INGOT CASTING
Delivery Condition : SPHEROIDIZING ANNEALING
SMOOTH TURNED

Customer : PHUONG TRANG
Supplier : .
Purchase order No. : PT2012

Inspection Items		Chemical Composition (wt. %)										Nonmetallic Inclusion(ASTM E-45) (Method A)							
		C	Si	Mn	P	S	Cu	Cr	Mo	V		A(T)	A(H)	B(T)	B(H)	C(T)	C(H)	D(T)	D(H)
Spec.	Min.	0.350	0.800	0.250				4.800	1.000	0.800									
	Max.	0.420	1.200	0.500	0.0300	0.0200		5.500	1.500	1.150									
Ladle		0.387	0.956	0.331	0.0204	0.0018	0.124	5.013	1.251	0.833		.0	.0	.2	.0	.0	.0	.7	.8

Inspection Items		Tensile Test						Hardness (HB)			Impact Test						Decarburized Layer		Grain Size	Micro Structure	Ultrasonic Test
											Type						DM-T	DM-F			
Spec.	Min.																				
	Max.							229													
9901-1								190.0												GOOD	GOOD

Lot No.	Bundle No.	Length(mm)	Number of Qt.	Total Length	Weight (kg)	Weight (lb)	Case No.
B0C0309901	B0C03099011	3680 - 5470	20		1,036	2,284	
		TOTAL	20		1,036	2,284	

<<Remark>> EN 10204 Type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION.

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 S. H. Ko
Manager of Quality Assurance Team

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