

S&AH CSS

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

INSPECTION CERTIFICATE

Steel Grade : DuRAH 61

Heat No. : N36703

Size : DIAMETER 201 MM

Commodity : ROUND BARS

Specification(Ed/Add) : SEAHCSS (20)

Melting Process : E.A.F.-L.F.& V.D. - INGOT CASTING

Delivery Condition : SPHEROIDIZING ANNEALING

ROUGH TURNED

Customer : PHUONG TRANG

Supplier : PHUONG TRANG

Purchase order No. : PT2605

Date : 2026-09-05

Cert. No. : 260904-2150

Made in Korea

Melted and poured in the Republic of Korea

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Chemical Composition (wt. %)

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	0.385	0.925	0.475	0.0212	0.0011	0.0880	5.096	1.209	0.812		0.0	0.0	0.2	0.0	0.0	0.0	0.5
																		0.3

Tensile Test

Inspection Items	Tensile Test		Hardness (HRC)	Impact Test		Decarburized Layer		Grain Size	Micro Structure	Ultrasonic Test
	Spec.	Min. Max.		Type		DM-T	DM-F			
9300-1										

<<Remark>> EN 10204 Type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION.
Satisfied to JIS G 4404 SKD61 grade

TOTAL 2 1.756 3.871

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.

Certified by **B. M. Karg**

Manager of Quality Assurance Team