

S&AH CSS

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

INSPECTION CERTIFICATE

Steel Grade : DuRAH 61

Heat No. : N36795

Size : THICKNESS 91 MM X WIDTH 510 MM

Commodity : FLATS

Specification(Ed/Add) : SEAHCSS (20)

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

Delivery Condition : SPHEROIDIZING ANNEALING

BLACK SURFACE

Customer : PHUONG TRANG

Supplier : PHUONG TRANG

Purchase order No. : PT2605

Date : 2026-09-05

Cert. No. : 260904-2142

Made in Korea

Melted and poured in the Republic of Korea

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Inspection Items		Chemical Composition (wt. %)										Nonmetallic Inclusion (ASTM E-45)							
		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		0.378	0.953	0.342	0.0231	0.0010	0.1070	5.047	1.242	0.870		2	2	2	2	2	2	2	2
												0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0

Inspection Items		Tensile Test				Hardness (HIB)		Impact Test		Decarburized Layer		Grain Size		Micro Structure		Ultrasonic Test	
		Min.	Max.	Min.	Max.	Min.	Max.	Type	Value	DM-T	DM-F						
Spec.	Min.								229								
	Max.								190.0								
4900-1																	

Lot No.	Bundle No.	Length(mm)	Number of Qt.	Total Length	Weight (kg)	Weight (lb)	Case No.	<<Remark>> EN 10204 Type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION. Satisfied to JIS G 4404 SKD61 grade	
B660264900	B6602649001	4850 - 4850	1		1,774	3,911			
TOTAL			1		1,774	3,911			

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. Kang**

Manager of Quality Assurance Team