

SeAH CSS

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

Steel Grade : DuMAC 11

Heat No. : N36887

Size : DIAMETER 151 MM

Commodity : ROUND BARS

INSPECTION CERTIFICATE

Date : 2026-09-05

Cert. No. : 260904-2152

Made in Korea

Melted and poured in the Republic of Korea

Customer : PHUONG TRANG

Supplier : PHUONG TRANG

Purchase order No. : PT2606

Specification(Ed/Add) : SEAHCSS (20)

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

Delivery Condition : SPHEROIDIZING ANNEALING

ROUGH TURNED

Chemical Composition (wt. %)

Inspection Items	C	Si	Mn	P	S	Cu	Cr	Mo	V	Nonmetallic Inclusion(ASTM E-45) (Method A)										
										A(T)	A(H)	B(T)	B(H)	C(T)	C(H)	D(T)	D(H)			
Spec. Ladle	1.400																			
	1.600	0.400	0.600	0.0300	0.0300		11.000	0.800	0.200											
	1.479	0.247	0.224	0.0261	0.0005		13.000	1.200	0.500											

Tensile Test

Inspection Items	Spec.	Min.	Max.	Hardness (HB)		Impact Test		Decarburized Layer		Grain Size	Micro Structure	Ultrasonic Test
				Type	Value	Type	Value	DIM-T	DIM-F			
9300-1	Spec.	Min.	Max.		255							
					230.0						GOOD	GOOD

Lot No.	Bundle No.	Length (mm)	Number of Qt.	Total Length	Weight (kg)	Weight (lb)	Case No.	Remarks	
								EN 10204 Type 3.1 / NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATION.	
B670029300	B6700293001	4610 - 4810	2		1,308	2,884		Satisfied to JIS G 4404 SKD11 grade	

TOTAL 2 1,308 2,884

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. Kagg

Manager of Quality Assurance Team