

SAH CSS

SAH Changwon Integrated Special Steel
147, Jeokyeon-ro, Seogwipo, Jeollabuk-do, Gyeongnam, Korea

INSPECTION CERTIFICATE

Date : 2021-02-09
Cert. No. : 210208-2399

Made in Korea
Melted and poured in the Republic of Korea

Special Report : SAC SKD11
Heat No. : N22539
Size : PHOSPHOR BRONZE 51 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. : FT2012



Inspection Items	Chemical Composition (wt. %)											Nonmetallic Inclusion (ASTM E-45)								
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V		A(CT)	A(H)	B(CT)	B(H)	C(CT)	C(H)	D(T)	D(H)	
Spec. Min.	1.400																			
Spec. Max.	1.600	0.400	0.600	0.0300	0.0300			11.000	0.800	0.200										
Ladle	1.506	0.277	0.244	0.0282	0.0010	0.146	0.357	13.000	1.200	0.500		0	0	0	0	0	0	0	0	0

Inspection Items	Tensile Test			Hardness (HB)			Impact Test			Decarbitized Layer			Micro Structure	Ultrasonic Test
	Min.	Max.		255	242.0	242.0	DM-T	DM-F	DM-T	DM-F	DM-T	DM-F		
Spec. Min.														
Spec. Max.														
5008-1														
5101-1														

Lot No.	Bundle No.	Length(mm)	Number of Qt.	Total Length	Weight (kg)	Weight (lb)	Case No.	Tensile Test		Hardness (HB)		Micro Structure	Ultrasonic Test
								Min.	Max.	255	242.0		
B0A0425008	B0A04250081	3900 - 5280	12	975	2,149								
B0A0425101	B0A04251011	5290 - 5300	12	997	2,198								
TOTAL							24	1,972	4,347				

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. K**
Manager of Quality Assurance Team

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