



SeAH Besteel
522, Ohsang-ro, Gunsan-si,
Jeollabuk-do, Korea (573-7111)

MATERIAL CERTIFICATE

TEL : 82-(0)63-460-8573, 8572(CA)
+82-(0)63-460-8114(Repres.)
FAX : +82-(0)63-460-8423

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ACCORDING TO EN10204:2004, Type 3.1

Date : 2017-09-01
Cert. No. : 201709-000094
Customer : (주)유일특수강
Heat No. : C38331
Serial-No. :
Specification :
Steel Grade : SCM415C2
Shape of Product : Square Bar
Delivery Condition : As Forged
Melting Process : EAF-LF-VD(RH)-IC

Size (mm) : 365 * 280
Length (mm) :
Weight (kg) : 4,440
Quantity (pcs) : 1



Inspection Items		Chemical Composition (wt. %)															
		C	Si	Mn	P	S	Cu	Ni	Cr	Mo							
		×100	×100	×100	×1000	×1000	×100	×100	×100	×100							
Spec.	Min.	13	15	60		10			90	15							
	Max.	18	35	85	30	25	50	25	120	30							
Result		16	22	68	8	15	8	5	86	16							
Inspection Items		Tensile Test				Charpy Impact Test				Product Hardness		Ultrasonic Test	Surface Inspection	Bundle	Quantity(pcs)	Weight(kg)	
						Type											
Spec.	Min.													0001	1	4.440	
	Max.																
Result												GOOD	GOOD				
Inspection Items		Gas Analysis(ppm)		Austenite Grain Size		Macro Structure			Macro Streak Flow			Decarburized Layer					
												DM-T					
Spec.	Min.																
	Max.																
Result																	
Inspection Item		Nonmetallic Inclusion										Reduction Ratio					
Spec.	Min.											3					
	Max.																
Result												4.8					
Inspection Items		Hardenability															
Spec.	Min.																
	Max.																
Result																	

130-81-89358

(주)유일특수강 한막

인천광역시 부평구 한남로100길10

도대철강제조

원본대조필

<<Remark>>

SCM415 (가) 270x354x601=2EA (A22 9D)

130-81-89358

(주)유일특수강 한 박

인천광역시 부평구 연남로 1000번지

도 대 철 강
제 조 규 형 외

원본대조필

2017. 9. 4

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/TS 16949:2009 by KSA

※ 본 품질보증서에 명기된 규격용도의 사용시 안전상 문제가 발생할 수 있으며, 품질보증서 원, 빈조서 사문서 부조(위법조)로 불이익을 당하실 수 있습니다.

Certified by

S.T. Park

Manager of Quality Assurance Dept.