

CERTIFIED MATERIAL REPORT

CMR No. : 2604254200007

Date of Issue : 2026-04-25

Customer	독일법인 북부		
Trade Name	SM-70	Size	0.8mm*15kg
Lot No.	266003041	Purchaser's Order No.	-
Specification	EN ISO 14341-A -G 42 5 M21 3Si1 * According to EN 10204-2004 : 3.1		

Welding Current	DCEP	Shielding Gas	M21	Post Weld Heat Treatment (°C × hr.)	AS WELDED
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Mechanical Properties

Weld Metal	Tensile Test			Impact Test (CVN - Joule)				
	YS(MPa)	TS(MPa)	EL(%)	Temp.(°C)	X1	X2	X3	Avg.
	549	604	25.8	-50	75	63	62	67
Spec.	≥ 420	500~640	≥ 20	≥ 47				

Chemical Composition (%)

	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	Al
WIRE	0.07	0.82	1.45	0.008	0.015	0.01	0.03	0.01	0.01	0.18	0.01
Spec.	0.06~0.14	0.70~1.00	1.30~1.60	≤ 0.025	≤ 0.025	≤ 0.15	≤ 0.15	≤ 0.15	≤ 0.03	≤ 0.35	≤ 0.02
WIRE	Ti+Zr										
	0.01										
Spec.	≤ 0.15										

Others

We hereby certify that the material covered by this report has been inspected in accordance with and been found to meet the applicable requirements of specification and customer's requirements.

Approved by

K.W. Park

QA Manager Park K. W.



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