



CERTIFICATE OF WELDING CONSUMABLES

CHOSUN WELDING POHANG CO., LTD.

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Customer CHOSUN VINA CO., LTD.

P.O No. 80261424

Cert. No. CS-2502-0037

Date of Issue 2025.02.03

Brand Name	Classification	Specification	Dia.	LOT No.	Weight	Remark
TGC-80Ni1	ASME Sect. II Part C SFA-5.28/5.28M, AWS A5.28/5.28M	ER80S-Ni1/ ER55S-Ni1	2.4 mm	4C09242	500 kg	

* According to EN 10204 3.1

CHEMICAL COMPOSITION (%) (☐ WELD METAL ☒ FILLER METAL)

Elements	C	Mn	Si	P	S	Cu	Ni	Cr	Mo	V	F/N
Spec.(max.)	0.12	1.25	0.40-0.80	0.025	0.025	0.35	0.80-1.10	0.15	0.35	0.05	-
Result	0.07	1.13	0.55	0.007	0.002	0.10	0.94	0.02	0.00	0.00	

MECHANICAL PROPERTIES OF WELD METAL

Item	Tension Test			Impact Test				Radiographic Test	Postweld Condition		Fillet Weld Test
	Y.S	MPa	T.S	MPa	EL.(%)	Test Temp.(°C)	Charpy V-notch Absorbed Energy (J)		☒ A.W	☐ PWHT Temp.(°C) Hour(s)	
Spec.(min.)	470		550		24	-45	27				-
Result	524		628		30	-45	276 284 294 AVG. 285	Accept	-		-

FLUX (%)

OTHER TEST

Item	Moisture Test	Hydrogen Test	Hardness Test	Bending Test
Spec.(max.)	-	-	-	-
Result	-	-		

We hereby certify that the above materials are satisfactory in compliance with the requirement specified in the contract.
Our quality system is certified in accordance with ISO 9001:2015 by DNV Business Assurance B.V, Netherlands

I. T. Kim

Manager of Quality Assurance Department