

INSPECTION CERTIFICATE

KOBELCO WELDING OF EUROPE B.V.

FLUX CORED WIRE

PURCHASER _____

CERTIFICATE NO: KC22-347

DATE OF ISSUE: 01/12/2022

TRADE DESIGNATION	DIAMETER (mm)	MFG.NO.	APPLICABLE SPECIFICATION AND CLASSIFICATION
DW-316L	1.2	N21680	AWS A5.22 E316LT0-1/4 EN ISO 17633-A T 19 12 3 L R C1/M21 3

1. CHEMICAL COMPOSITIONS OF ALL WELD METAL(wt%) (ACCORDING TO EN 10204 TYPE 3.1)

ELEMENT	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	N	Nb
WELD METAL	0.022	0.53	1.55	0.022	0.006	0.06	12.39	18.64	2.72	0.014	< 0.01

ELEMENT	V	FS	FN	FNW
WELD METAL	0.06	7.0	12.0	9.0

FS:FERRITE CONTENT%(SCHAEFFLER DIAGRAM)
FN:FERRITE NUMBER(DELONG DIAGRAM)
FNW:FERRITE NUMBER(1992 WRC DIAGRAM)

2. MECHANICAL PROPERTY OF ALL WELD METAL (ACCORDING TO EN ISO)

2.a TENSILE TEST (ACCORDING TO EN 10204 TYPE 3.1)

YIELD STRENGTH at 0.2% OFFSET (MPa)	TENSILE STRENGTH (MPa)	ELONGATION GL=5D(%)
402	557	39

2.b CHARPY IMPACT (ACCORDING TO EN 10204 TYPE 3.1)

TESTING TEMPERATURE (°C)	ABSORBED ENERGY(J)	
	EACH	AVERAGE

3. WELDING CONDITIONS FOR THE TESTING

TYPE OF CURRENT	DC+	SHIELDING GAS	80%Ar+20%CO2
WELDING CURRENT	210 (A)	ARC VOLTAGE	28.0 (V)

4. REMARKS

BISMUTH (Bi) CONTENT IN DEPOSITED METAL IS NO LESS THAN 0.002%.
According to GofQ DW-316L R0

WE HEREBY CERTIFY THAT THE TEST RESULTS OF THE ABOVE
WELDING MATERIAL ARE CORRECT



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QA Manager