

# INSPECTION CERTIFICATE

KOBELCO WELDING OF EUROPE B.V.

FLUX CORED WIRE

PURCHASER \_\_\_\_\_ CERTIFICATE NO: KC24-040  
 DATE OF ISSUE: 08/02/2024

TRADE DESIGNATION	DIAMETER (mm)	MFG.NO.	APPLICABLE SPECIFICATION AND CLASSIFICATION
DW-316L	1.2	N40120	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	0.027	0.61	1.75	0.021	0.004	0.07	12.39	18.94	2.81	0.016	< 0.01
ELEMENT	V	FS	FN	FWW							
WELD METAL	0.05	7.0	13.0	10.0							

FS:FERRITE CONTENT%(SCHAEFFLER DIAGRAM)  
 FN:FERRITE NUMBER(DELONG DIAGRAM)  
 FFW: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(%)
399	564	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



KOBELCO WELDING OF EUROPE B.V.  
 QA Manager