



# Superon Schweisstechnik India Ltd

Plot no. 552, Pace City-II, Sector 37, Gurgaon,  
Haryana-122001, India

An ISO 9001 , ISO 14001 &  
BS OHSAS 18001 Certified Company

## TEST CERTIFICATE AS PER EN 10204 TYPE:3.1

CUSTOMER : SWP-U.K

P.O./P.I. NO	PO No.43555/31.10.2023
INVOICE NO./DATE	EXP/23-24/598/30.11.2023
QTY.(Kgs.)	40.00

Brand/Grade: SUPER OPTIMAL 312-17

Report No: SUP 2023/031

Size (mm): 4.00X350

Date of issue: 30.11.2023

Standard-No./  
Classifications: AWS A5.4 : E312 -17

PART No. 7456S

Batch No/Heat No: GP 25149

Date of Mfg: 29.11.2023

### All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb	V	N
Spec.	0.15 Max.	1.00 Max.	0.50- 2.50	0.03 Max.	0.04 Max.	28.0- 32.0	8.0- 10.50	0.75 Max.	0.75 Max.	-	-	-
Result	0.098	0.86	0.69	0.012	0.024	28.56	9.54	0.048	0.066	-	-	0.10

### Mechanical Properties of All Weld Metal

	Yield Strength (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	660 Min.	22 Min.	-	-	-
Result	-	738	24.80	-	-	46

Diffusible Hydrogen:- (ml/100gm of weld metal)	--	Coating Moisture(%):-	--
Radiography:-	Satisfactory	Fillet weld Test:-	Satisfactory
Bend Test:-	--	PWHT:-	--

TEST CONDUCTED AS PER : AWS/SFA-A5.4 : E312-17

We certify that the statement in this test report are correct and that the test welds were prepared welded and tested in Accordance with the requirement conforming to ASME BPVC.II.C Latest Edition 2023,in all respects.



Manager Quality Assurance

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