

**Superon Schweisstechnik (I) Ltd**191-D, Sector- IV, Phase- II, IMT Manesar Gurgaon,
Haryana- 122050**TEST CERTIFICATE**

AS PER EN 10204 TYPE:3.1

CUSTOMER : Souz LLC – RUSSIA	P.O./P.I. NO	CONTRACT NO-28/2/28-02-17
	INVOICE NO./DATE	EXP/17-18/192/14-07-17
	QTY.(Kgs.)	300.00

Brand/Grade: E 347-16

Report No: SUP 2017/4898

Size (mm): 4.00X350

Date of issue: 14-07-17

Standard-No./
Classifications: AWS A5.4 :E 347-16

Batch No/Heat No: M 35222

Date of Mfg: 30-06-17

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb+Ta	V	N
Spec.	0.08 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	8XC,Min- 1.00 Max	-	-
Result	0.017	0.88	0.71	0.017	0.021	19.21	9.66	0.031	0.050	0.35	-	0.073

Mechanical Properties of All Weld Metal

	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	630	41.58	-	-	7

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

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CONDUCTED AS PER : AWS-SFA:5.4 E 347-16

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 2015,in all respects.

Manager Quality Assurance**Admn. Office :** 15-16, Old Sewa Nagar Market,P.O. Lodhi Road, New Delhi-110003,India.Tel. : +91-11-24647199 / 24647252. Fax : +91-11-24633847 / 24623826. E-mail : sales@superonindia.com

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AS PER EN 10204 TYPE:3.1

CUSTOMER : Souz LLC – RUSSIA

P.O./P.I. NO	CONTRACT NO-28/2/28-02-17
INVOICE NO./DATE	EXP/17-18/192/14-07-17
QTY.(Kgs.)	500.00

Brand/Grade: E 347-16

Report No: SUP 2017/4897

Size (mm): 2.00X300

Date of issue: 14-07-17

Standard-No./
Classifications: AWS A5.4 :E 347-16

Batch No/Heat No: M 35232

Date of Mfg: 30-06-17

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb+Ta	V	N
Spec.	0.08 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	8XC,Min- 1.00 Max	-	-
Result	0.014	0.94	0.68	0.020	0.020	19.01	9.42	0.045	0.051	0.41	-	0.090

Mechanical Properties of All Weld Metal

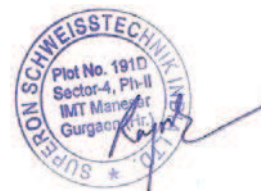
	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	630	41.29	-	-	7

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

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CONDUCTED AS PER : AWS-SFA:5.4 E 347-16

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AS PER EN 10204 TYPE:3.1

CUSTOMER : Souz LLC – RUSSIA

P.O./P.I. NO

CONTRACT NO-28/2/28-02-17

INVOICE NO./DATE

EXP/17-18/192/14-07-17

QTY.(Kgs.)

500.00

Brand/Grade: E 347-16

Report No: SUP 2017/4896

Size (mm): 2.50X350

Date of issue: 14-07-17

Standard-No./
Classifications: AWS A5.4 :E 347-16

Batch No/Heat No: M 35250

Date of Mfg: 30-06-17

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb+Ta	V	N
Spec.	0.08 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	8XC,Min- 1.00 Max	-	-
Result	0.024	0.92	0.66	0.016	0.021	19.56	9.53	0.037	0.050	0.40	-	0.090

Mechanical Properties of All Weld Metal

	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	626	41.37	-	-	8

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

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CONDUCTED AS PER : AWS-SFA:5.4 E 347-16

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AS PER EN 10204 TYPE:3.1

CUSTOMER : Souz LLC – RUSSIA

P.O./P.I. NO	CONTRACT NO-28/2/28-02-17
INVOICE NO./DATE	EXP/17-18/192/14-07-17
QTY.(Kgs.)	1200.00

Brand/Grade: E 347-16

Report No: SUP 2017/4895

Size (mm): 3.20X350

Date of issue: 14-07-17

Standard-No./
Classifications: AWS A5.4 :E 347-16

Batch No/Heat No: M 35364

Date of Mfg: 30-06-17

All Weld Metal Chemical Analysis (%)

Element	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	Nb+Ta	V	N
Spec.	0.08 Max.	1.00 Max.	0.50- 2.5	0.03 Max.	0.04 Max.	18.0- 21.0	9.0- 11.0	0.75 Max.	0.75 Max.	8XC,Min- 1.00 Max	-	-
Result	0.020	0.92	0.65	0.019	0.020	19.67	9.51	0.045	0.048	0.35	-	0.095

Mechanical Properties of All Weld Metal

	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Charpy Impact Avg. value(Joules) Temp. At --- (°C)	Hardness (As welded)	Ferrite(FN) as per WRC-1992
Spec:	-	520 Min.	30 Min.	-	-	-
Result	-	630	41.33	-	-	8

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

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E :Acceptable

TEST CONDUCTED AS PER : AWS-SFA:5.4 E 347-16

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