



INSPECTION CERTIFICATION

According to EN 10204 3.1

Client	SWP	Heat No.	4129	Date of Delivery	March 20, 2023
Products	Super 6 SG2	Test No.	534129	Date of Production	March, 2023
Order no.	42084	Size	1.2mm(1514MIXALT)	Date of Test	March 16, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.09	0.88	1.58	0.013	0.012	0.007	0.006	0.004	0.003	0.002	0.03	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)		Yield Strength(MPa)		Elongation(%)			
534129	-	547		458		28			
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
534129	V	-40	M21	92	88	89	87	91	89.40
534129	V	-40	C1	85	83	82	84	85	83.80
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.78			



Standard no.: AWS A5.18 ER70S-6
EN ISO 14341-A-G 42 4C1/M21 3Si1
DIN 8559 SG2

Approvals: TÜV SÜD

CPR Certificate no.:0036-CPR-S 128.2020.001

We hereby certify that the product described above "complies with the term of the order" and conforms with the related international standards"

0036

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DOP Ref.: Super 6 SG2 2020-001

EN13479:2017

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

Specialised welding Products Ltd

Unit 1 , Withins Road, Haydock Industrial Estate, Haydock, WA11 9UD

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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client	SWP	Heat No.	6359	Date of Delivery	March 20, 2023
Products	Super 6 SG2	Test No.	836359	Date of Production	March, 2023
Order no.	42097	Size	0.8mm(1512MIXALT)	Date of Test	March 16, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.08	0.89	1.57	0.012	0.013	0.006	0.005	0.004	0.003	0.002	0.03	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)		Yield Strength(MPa)		Elongation(%)			
836359	-	548		457		28			
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
836359	V	-40	M21	92	89	88	89	90	89.60
836359	V	-40	C1	83	84	82	84	86	83.80
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.78			



Standard no.: AWS A5.18 ER70S-6
EN ISO 14341-A-G 42 4C1/M21 3Si1
DIN 8559 SG2

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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client	SWP	Heat No.	6359	Date of Delivery	March 20, 2023
Products	Super 6 SG2	Test No.	836359	Date of Production	March, 2023
Order no.	42097	Size	0.8mm(7312)	Date of Test	March 16, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.08	0.89	1.57	0.012	0.013	0.006	0.005	0.004	0.003	0.002	0.03	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)			Yield Strength(MPa)			Elongation(%)	
836359	-	548			457			28	
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
836359	V	-40	M21	92	89	88	89	90	89.60
836359	V	-40	C1	83	84	82	84	86	83.80
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.78			



Standard no.: AWS A5.18 ER70S-6
EN ISO 14341-A-G 42 4C1/M21 3Si1
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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client	SWP	Heat No.	8818	Date of Delivery	March 20, 2023
Products	Super 6 SG2	Test No.	838818	Date of Production	March, 2023
Order no.	42084	Size	1.0mm(7305)	Date of Test	March 16, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.09	0.88	1.56	0.013	0.012	0.007	0.005	0.004	0.003	0.002	0.03	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)			Yield Strength(MPa)			Elongation(%)	
838818	-	547			458			28	
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
838818	V	-40	M21	93	88	87	88	89	89.00
838818	V	-40	C1	83	84	82	86	85	84.00
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.78			



Standard no.: AWS A5.18 ER70S-6
 EN ISO 14341-A-G 42 4C1/M21 3Si1
 DIN 8559 SG2

Approvals: TÜV SÜD

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DOP Ref.:Super 6 SG2 2020-001

EN13479:2017

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client	SWP	Heat No.	5741	Date of Delivery	March 20, 2023
Products	Super 6 SG2	Test No.	835741	Date of Production	March, 2023
Order no.	42084	Size	0.6mm(7306)	Date of Test	March 16, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.08	0.89	1.58	0.012	0.013	0.006	0.005	0.004	0.003	0.002	0.03	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)		Yield Strength(MPa)		Elongation(%)			
835741	-	548		457		27			
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
835741	V	-40	M21	92	89	86	89	91	89.40
835741	V	-40	C1	83	84	82	86	81	83.20
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.78			



Standard no.: AWS A5.18 ER70S-6
EN ISO 14341-A-G 42 4C1/M21 3Si1
DIN 8559 SG2

Approvals: TÜV SÜD

CPR Certificate no.:0036-CPR-S 128.2020.001

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DOP Ref.: Super 6 SG2 2020-001

EN13479:2017

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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INSPECTION CERTIFICATE

According to EN 10204 3.1

Client	SWP	Heat No.	4273	Date of Delivery	March 20,2023
Products	SUPER 6SG3	Test No.	5434273	Date of Production	March,2023
Order no.	42084	Size	1.2mm(7322)	Date of Test	March 15,2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.09	0.97	1.78	0.013	0.012	0.006	0.006	0.003	0.002	0.002	0.04	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)			Yield Strength(MPa)			Elongation(%)	
5434273	-	548			468			27	
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
5434273	V	-40	M21	88	91	92	89	90	90.00
5434273	V	-40	C1	83	82	85	84	85	83.80
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.75			

Standard no.: AWS A5.18 ER70S-6

EN ISO 14341-A-G 42 4C14Si1

EN ISO 14341-A-G 46 4M214Si1

DIN 8559 SG3

Approvals: TÜV SÜD

CPR Certificate no.:0036-CPR-S 128.2020.001

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DOP Ref.:Super SG3 2020-001

EN13479:2017

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

Specialised welding Products Ltd

Unit 1 , Withins Road, Haydock Industrial Estate, Haydock, WA11 9UD

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INSPECTION CERTIFICATE

According to EN 10204 3.1

Client	SWP	Heat No.	4273	Date of Delivery	March 20,2023
Products	SUPER 6SG3	Test No.	5434273	Date of Production	March,2023
Order no.	42084	Size	1.0mm(7321)	Date of Test	March 15,2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.09	0.97	1.78	0.013	0.012	0.006	0.006	0.003	0.002	0.002	0.04	0.22

Welding conditions

Current type	DC+	Arc voltage(V)	22-26	Interpass temp.	150
Current(A)	220-260	Shielding Gas	EN ISO 14175-C1,M20,M21		

All-weld-metal mechanical properties

Tensile test									
Test no.	Heat treatment	Tensile strength(MPa)			Yield Strength(MPa)			Elongation(%)	
5434273	-	548			468			27	
Impact test									
Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
5434273	V	-40	M21	88	91	92	89	90	90.00
5434273	V	-40	C1	83	82	85	84	85	83.80
Radiography			Bending test(Butt Weld)			Hydrogen Test			
II			OK			2.75			



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DOP Ref.:Super SG3 2020-001

EN13479:2017

Standard no.: AWS A5.18 ER70S-6

EN ISO 14341-A-G 42 4C14Si1

EN ISO 14341-A-G 46 4M214Si1

DIN 8559 SG3

Approvals: TÜV SÜD

CPR Certificate no.:0036-CPR-S 128.2020.001

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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client		Heat No.	3512	Date of Delivery	March 20, 2023
Products	E71T-1M	Test No.	103512	Date of Production	March, 2023
Order no.	42084	Size	1.2mm(7332)	Date of Test	March 15, 2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.09	0.38	1.39	0.013	0.012	0.006	0.006	0.008	0.006	0.22	0.08	0.22

Welding conditions

Current type	DC-	Arc voltage(V)	low	Interpass temp.	150
Current(A)	low	Shielding Gas	No gas		

All-weld-metal mechanical properties

Tensile test

Test no.	Heat treatment	Tensile strength(MPa)	Yield Strength(MPa)	Elongation(%)
103512	-	479	---	18

Impact test

Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
103512	V	-40	Mixture	91	88	89	91	92	90.20

Radiography	Bending test(Butt Weld)	Hydrogen Test
Π	OK	7.8



Standard no.: AWS A5.20 E71T-1

EN ISO 17632-A - T 42 4 R C / M 2 H10

EN ISO 17632-A-T 462P C1 H10

Approvals: TÜV SÜD, DB, ABS, LR, KR, NK, CWB, DNV/GL, BV, CCS, RINA

0036

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DOP Ref.: Super 6 E71T-1 2021-001

EN13479:2017

CPR Certificate no.: 0036-CPR-S 128.2020.001

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Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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INSPECTION CERTIFICATION

According to EN 10204 3.1

Client		Heat No.	3408	Date of Delivery	March 20,2023
Products	E71T-GS	Test No.	2303408	Date of Production	March,2023
Order no.	42084	Size	0.8mm(7338)	Date of Test	March 15,2023

All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

C	Si	Mn	P	S	Cr	Ni	Mo	V	Al	Ti+Zr	Cu
0.08	0.36	1.36	0.012	0.012	0.005	0.004	0.004	0.005	0.20	0.06	0.37

Welding conditions

Current type	DC-	Arc voltage(V)	low	Interpass temp.	150
Current(A)	low	Shielding Gas	No gas		

All-weld-metal mechanical properties

Tensile test

Test no.	Heat treatment	Tensile strength(MPa)	Yield Strength(MPa)	Elongation(%)
2303408	-	437	---	18

Impact test

Test no.	Notch type	Test temperature	Shielding Gas	Impact value(J)					Average
				1	2	3	4	5	
2303408	V	0	No gas	18	19	16	15	17	17.00

Radiography

Bending test(Butt Weld)

Hydrogen Test

II

OK

7.6

We hereby certify that the product described above "complies with the term of the order" and conforms with the related international standards"

Standard no.: AWS A5.20 E71T-GS

Inspecting Department : QC Department

Inspector : **YAJUN,ZHAO**

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