

TEST CERTIFICATE

Chemical Composition Prepared according to EN 10204 3.1

Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551777	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4444
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 316L (VAC)	Dimension (mm) 2.50 x 300 (mm) - 1,75 (Kg)	Approvals BV, CWB, DNV-GL, GOST, TUV	Quantity(kg) 94,5
Standards AWS/ASME SFA - 5.4 E316L-16, EN ISO 3581 - A E 19 12 3 L R 32, TS EN ISO 3581 - A E 19 12 3 L R 32			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106629	0,015	0,733	0,89	0,017	0,013	19,203	12,548	2,837	0,039	0,035	0,009	0,022

Welding Conditions

Current Type	DC+	Arc Voltage(V)	20	Current (A)	70
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		40	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Certification Services



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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551776	Date 06.08.2021	Dispatch No 2021000013256	Production Number 2356
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 316L (VAC)	Dimension (mm) 5.00 x 350 (mm) - 2 (Kg)	Approvals BV, CWB, DNV-GL, GOST, TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E316L-16, EN ISO 3581 - A E 19 12 3 L R 32, TS EN ISO 3581 - A E 19 12 3 L R 32			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
87067	0,022	0,763	0,862	0,017	0,014	19,112	12,233	2,727	0,066	0,031	0,008	0,018

Welding Conditions

Current Type	AC	Arc Voltage(V)	26	Current (A)	190
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		40	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551775	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4149
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 316L (VAC)	Dimension (mm) 3.25 x 350 (mm) - 2 (Kg)	Approvals BV, CWB, DNV-GL, GOST, TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E316L-16, EN ISO 3581 - A E 19 12 3 L R 32, TS EN ISO 3581 - A E 19 12 3 L R 32			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
103660	0,016	0,708	0,914	0,019	0,013	19,289	12,397	2,844	0,044	0,035	0,009	0,024

Welding Conditions

Current Type	AC	Arc Voltage(V)	26	Current (A)	110
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		40	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Chemical Composition Prepared according to EN 10204 3.1

Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551774	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4331
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 308L (VAC)	Dimension (mm) 5.00 x 350 (mm) - 2 (Kg)	Approvals CWB, GOST, HAKC(1.00mm), TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E308L-16, EN ISO 3581 - A E 19 9 L R 12, TS EN ISO 3581 - A E 19 9 L R 12			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
105623	0,016	0,682	0,904	0,022	0,013	19,657	10,46	0,035	0,025	0,036	0,008	0,013

Welding Conditions

Current Type	AC-	Arc Voltage(V)	26	Current (A)	200
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		570		440		42	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Certificate No 551773	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4350
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESB 52 (CARDBOARD)	Dimension (mm) 3.25 x 350 (mm) - 5 (Kg)	Approvals ABS, BV, CWB, DB, DNV-GL, HAKC, LR, TL, TUV	Quantity:(kg) 7560
Standartlar/ AWS/ASME SFA - 5.1 E7018-1 H4R , CSA W48-18 E4918-1-H4, EN ISO 2560 - A E 42 6 B 42 H5, TS EN ISO 2560 - A E 42 6 B 42 H5			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
105858	0,055	0,305	1,332	0,014	0,014	0,042	0,057	0,008	0,116	0,01	0,006	0,003

Welding Conditions

Current Type	DC+	Arc Voltage(V)	23	Current (A)	130
Pre-Annealing (C)	-		Interpass temperature (C)		100

All-Weld-Metal Mechanical Properties**Tensile Test**

Test No	Heat Treatment	Tensile Strength(N/mm2)	Yield Strength(N/mm2)	Elongation(%)
105858	-	540	437	24

Notch Impact Test

Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					Mean
105858	ISO-V	-	-51	118	127	118			121
Radiography		Bending Test			Hydrogen Test				
AWS/ASME SFA - 5.1=OK					2,31 ml/100gr				

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Chemical Composition Prepared according to EN 10204 3.1

Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551772	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4442
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESB 48 (CARDBOARD)	Dimension (mm) 3.25 x 350 (mm) - 5 (Kg)	Approvals ABS, BV, CWB, ClassNK, DB, DNV, GL, GOST, HAKC, LR, RINA, TL, TUV	Quantity(kg) 1080
Standards AWS/ASME SFA - 5.1 E7018 H8, EN ISO 2560 - A E 42 3 B 42 H10, TS EN ISO 2560 - A E 42 3 B 42 H10			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106915	0,068	0,298	0,913	0,011	0,012	0,083	0,085	0,015	0,163	0,018	0,007	0,003

Welding Conditions

Current Type	DC+	Arc Voltage(V)	23	Current (A)	130
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		28	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	-30	-	-	-	-	-	140
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Chemical Composition Prepared according to EN 10204 3.1

Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551771	Date 06.08.2021	Dispatch No 2021000013256	Production Number 1095
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 316L (VAC)	Dimension (mm) 4.00 x 350 (mm) - 2 (Kg)	Approvals BV, CWB, DNV-GL, GOST, TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E316L-16, EN ISO 3581 - A E 19 12 3 L R 32, TS EN ISO 3581 - A E 19 12 3 L R 32			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
72973	0,019	0,745	0,861	0,021	0,014	18,614	12,241	2,674	0,059	0,043	0,009	0,021

Welding Conditions

Current Type	AC	Arc Voltage(V)	26	Current (A)	150
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		40	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Chemical Composition Prepared according to EN 10204 3.1

Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551770	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4472
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 308L (VAC)	Dimension (mm) 4.00 x 350 (mm) - 2 (Kg)	Approvals CWB, GOST, HAKC(1.00mm), TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E308L-16, EN ISO 3581 - A E 19 9 L R 12, TS EN ISO 3581 - A E 19 9 L R 12			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106975	0,019	0,704	0,906	0,018	0,014	19,575	10,164	0,116	0,051	0,032	0,008	0,014

Welding Conditions

Current Type	AC	Arc Voltage(V)	27	Current (A)	147
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		570		440		42	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551769	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4387
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESB 48 (CARDBOARD)	Dimension (mm) 2.50 x 350 (mm) - 5 (Kg)	Approvals ABS, BV, CWB, ClassNK, DB, DNV, GL, GOST, HAKC, LR, RINA, TL, TUV	Quantity(kg) 1035
Standards AWS/ASME SFA - 5.1 E7018 H8, EN ISO 2560 - A E 42 3 B 42 H10, TS EN ISO 2560 - A E 42 3 B 42 H10			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106312	0,061	0,294	1,047	0,01	0,013	0,071	0,084	0,014	0,164	0,023	0,006	0,003

Welding Conditions

Current Type	DC+	Arc Voltage(V)	22	Current (A)	85
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		560		460		28	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	-30	-	-	-	-	-	140
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551768	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4215
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 308L (VAC)	Dimension (mm) 2.50 x 300 (mm) - 1,75 (Kg)	Approvals CWB, GOST, HAKC(1.00mm), TUV	Quantity(kg) 110,25
Standards AWS/ASME SFA - 5.4 E308L-16, EN ISO 3581 - A E 19 9 L R 12, TS EN ISO 3581 - A E 19 9 L R 12			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
104442	0,018	0,662	0,924	0,018	0,014	20,189	10,131	0,133	0,051	0,065	0,01	0,015

Welding Conditions

Current Type	AC	Arc Voltage(V)	24	Current (A)	72
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		570		440		42	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Prepared according to EN 10204 3.1

Certificate No 551767	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4361
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESB 52 (VAC)	Dimension (mm) 3.25 x 350 (mm) - 2,5 (Kg)	Approvals ABS, BV, CWB, DB, DNV-GL, HAKC, LR, TL, TUV	Quantity:(kg) 4200
Standartlar/ AWS/ASME SFA - 5.1 E7018-1 H4R , CSA W48-18 E4918-1-H4, EN ISO 2560 - A E 42 6 B 42 H5, TS EN ISO 2560 - A E 42 6 B 42 H5			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
105974	0,059	0,403	1,497	0,013	0,012	0,042	0,061	0,009	0,115	0,013	0,007	0,004

Welding Conditions

Current Type	DC+	Arc Voltage(V)	24	Current (A)	140
Pre-Annealing (C)	-		Interpass temperature (C)		200

All-Weld-Metal Mechanical Properties**Tensile Test**

Test No	Heat Treatment	Tensile Strength(N/mm2)	Yield Strength(N/mm2)	Elongation(%)
105974	-	554	450	31

Notch Impact Test

Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)						Mean
105974	ISO-V	-	-51	91	103	60				85
Radiography		Bending Test				Hydrogen Test				
AWS/ASME SFA - 5.1=OK						3,28 ml/100gr				

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551765	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4426
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESC 60 (TIN)	Dimension (mm) 4.00 x 350 (mm) - 8 (Kg)	Approvals ABS, BV, CWB, DB, GOST, TUV	Quantity(kg) 240
Standards AWS/ASME SFA - 5.1 E6010, EN ISO 2560 - A E 42 2 C 21, TS EN ISO 2560 - A E 42 2 C 21			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106431	0,133	0,138	0,489	0,009	0,016	0,038	0,055	0,012	0,096	0,006	0,014	0,003

Welding Conditions

Current Type	DC+	Arc Voltage(V)	30	Current (A)	135
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		530		470		25	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	-30	-	-	-	-	-	40
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551766	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4273
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESC 60 (TIN)	Dimension (mm) 4.00 x 350 (mm) - 8 (Kg)	Approvals ABS, BV, CWB, DB, GOST, TUV	Quantity(kg) 720
Standards AWS/ASME SFA - 5.1 E6010, EN ISO 2560 - A E 42 2 C 21, TS EN ISO 2560 - A E 42 2 C 21			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
105302	0,152	0,131	0,493	0,009	0,016	0,019	0,028	0,005	0,036	0,005	0,013	0,003

Welding Conditions

Current Type	DC+	Arc Voltage(V)	22	Current (A)	150
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		530		470		25	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	-30	-	-	-	-	-	40
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Mechanical Properties Prepared according to EN 10204 2.2

Certificate No 551764	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4471
Customer PIEDMONTONE LLC.			Lot Class
Product Name EI 308L (VAC)	Dimension (mm) 3.25 x 350 (mm) - 2 (Kg)	Approvals CWB, GOST, HAKC(1.00mm), TUV	Quantity(kg) 108
Standards AWS/ASME SFA - 5.4 E308L-16, EN ISO 3581 - A E 19 9 L R 12, TS EN ISO 3581 - A E 19 9 L R 12			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106974	0,019	0,678	0,888	0,018	0,013	19,689	10,299	0,041	0,039	0,03	0,007	0,012

Welding Conditions

Current Type	AC+	Arc Voltage(V)	25	Current (A)	111
Pre-Annealing (C)	-		Interpass temperature (C)		

All-Weld-Metal Mechanical Properties

Tensile Test									
Test No		Heat Treatment		Tensile Strength (N/mm2)		Yield Strength (N/mm2)		Elongation(%) (%)	
-		-		570		440		42	
Notch Impact Test									
Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					
				1	2	3	4	5	Mean
-	ISO-V	-	20	-	-	-	-	-	70
Hardness Test			Bending Test			Hydrogen Test			
			-			-			

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Certification Services



TEST CERTIFICATE

Prepared according to EN 10204 3.1

Certificate No 551763	Date 06.08.2021	Dispatch No 2021000013256	Production Number 4411
Customer PIEDMONTONE LLC.			Lot Class
Product Name ESB 52 (VAC)	Dimension (mm) 2.50 x 350 (mm) - 2,5 (Kg)	Approvals ABS, BV, CWB, DB, DNV-GL, HAKC, LR, TL, TUV	Quantity:(kg) 4215
Standartlar/ AWS/ASME SFA - 5.1 E7018-1 H4R , CSA W48-18 E4918-1-H4, EN ISO 2560 - A E 42 6 B 42 H5, TS EN ISO 2560 - A E 42 6 B 42 H5			

All-Weld-Metal/Chemical Analysis(%)

Test Num:	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Nb
106653	0,055	0,467	1,442	0,012	0,012	0,035	0,036	0,008	0,043	0,015	0,01	0,005

Welding Conditions

Current Type	DC+	Arc Voltage(V)	23	Current (A)	95
Pre-Annealing (C)	-		Interpass temperature (C)		175

All-Weld-Metal Mechanical Properties**Tensile Test**

Test No	Heat Treatment	Tensile Strength(N/mm2)	Yield Strength(N/mm2)	Elongation(%)
106653	-	555	458	31

Notch Impact Test

Test No	Notch Type	Heat Treatment	Test Temperature(C)	Impact Energy(J)					Mean
106653	ISO-V	-	-51	118	110	114			114
Radiography		Bending Test			Hydrogen Test				
AWS/ASME SFA - 5.1=OK					2,31 ml/100gr				

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