




A03 Certificate No. 2392/9-2022 1/3
 Advice No.
 A02 Test Report
 according to ASTM A6
 (SWT)

A01 Stahlwerk Thüringen GmbH
 A05 Quality Assurance Department
 Kronacher Straße 6
 07333 Unterwellenborn
 Germany
 A08 Our Order No.: 20021377
 A07 Your Order No.: PUR3001913_1
 B02 Quality: GRADE 50 TRI
 according to: CSA G40.21 50W/ASTM
 A572 GRADE 50/A992
 (TRIPLE CERTIFIED)

Pos.	Heat No.	Section	According to	Length	Pieces	Theoretical Weight
A10	B07	B01		B09	B08	B12
1	62354	W 4X4X13	ASTM A6/A6M	12,192 mm	120	28,308 kg
1	62355	W 4X4X13	ASTM A6/A6M	12,192 mm	60	14,154 kg
5	61984	W 12X4X19	ASTM A6/A6M	12,192 mm	60	20,685 kg
5	61987	W 12X4X19	ASTM A6/A6M	12,192 mm	7	2,413 kg
7	62007	W 14X5X22	ASTM A6/A6M	12,192 mm	52	20,757 kg
8	62011	W 14X5X26	ASTM A6/A6M	12,192 mm	48	22,644 kg
10	62146	C 10X15,3	ASTM A6/A6M	6,096 mm	36	4,996 kg
10	62147	C 10X15,3	ASTM A6/A6M	6,096 mm	108	14,988 kg
11	62265	C 12X20,7	ASTM A6/A6M	6,096 mm	112	21,033 kg
12	62340	W 5X5X19	ASTM A6/A6M	12,192 mm	120	41,370 kg
12	62341	W 5X5X19	ASTM A6/A6M	12,192 mm	8	2,758 kg
13	62342	W 5X5X16	ASTM A6/A6M	12,192 mm	150	43,550 kg
14	62146	C 10X15,3	ASTM A6/A6M	12,192 mm	72	19,988 kg
15	62266	C 12X20,7	ASTM A6/A6M	12,192 mm	60	22,536 kg

Heat Analysis [%]

Heat No.	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
B07	C71	C72	C73	C74	C75	C76	C78	C79	C80	C81
max	0.23	0.40	1.50	0.035	0.045	0.015	0.050	0.100	0.35	0.60
min		0.10	0.50				0.005			
61984	0.07	0.18	0.94	0.015	0.026	0.009	0.020	0.005	0.08	0.33
61987	0.08	0.18	0.95	0.014	0.023	0.008	0.020	0.005	0.08	0.40
62007	0.09	0.20	0.93	0.014	0.016	0.011	0.019	0.006	0.09	0.29
62011	0.08	0.19	0.93	0.023	0.022	0.008	0.019	0.005	0.11	0.33
62146	0.09	0.20	0.94	0.019	0.021	0.008	0.020	0.005	0.10	0.29
62147	0.08	0.20	0.95	0.018	0.019	0.007	0.021	0.006	0.10	0.31
62265	0.10	0.18	0.95	0.020	0.024	0.010	0.021	0.006	0.14	0.35
62266	0.08	0.18	0.92	0.021	0.030	0.008	0.020	0.005	0.09	0.33
62340	0.08	0.17	0.92	0.022	0.024	0.008	0.019	0.005	0.08	0.37
62341	0.08	0.17	0.92	0.022	0.023	0.009	0.020	0.005	0.07	0.39
62342	0.08	0.17	0.93	0.024	0.026	0.008	0.020	0.005	0.08	0.39
62354	0.09	0.18	0.93	0.027	0.021	0.009	0.020	0.005	0.05	0.34

Z03 Works inspector
 René Merbach

 Z02 28.09.2022



A03 Certificate No. 2392/9-2022
Advice No.

2/3

A02 Test Report
according to ASTM A6



A01 Stahlwerk Thüringen GmbH
A05 Quality Assurance Department
Kronacher Straße 6
07333 Unterwellenborn
Germany

A08 Our Order No.: 20021377
A07 Your Order No.: PUR3001913_1

B02 Quality: GRADE 50 TRI
according to: CSA G40.21 50W/ASTM
A572 GRADE 50/A992
(TRIPLE CERTIFIED)

Heat Analysis [%]

Heat No.	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
	[C71]	[C72]	[C73]	[C74]	[C75]	[C76]	[C78]	[C79]	[C80]	[C81]
max	0.23	0.40	1.50	0.035	0.045	0.015	0.050	0.100	0.35	0.60
min		0.10	0.50				0.005			
62355	0.09	0.23	0.96	0.027	0.015	0.008	0.019	0.005	0.07	0.38

Heat Analysis [%]

Heat No.	Ni	Mo	Sn	CEV	Nb+V	Mn/C
	[C82]	[C83]	[C87]	[C93]	[C96]	[C99]
max	0.45	0.15	0.050	0.45	0.100	2.0
min						
61984	0.18	0.03	0.012	0.28	0.025	13.4
61987	0.14	0.03	0.012	0.30	0.025	11.9
62007	0.12	0.03	0.011	0.30	0.025	10.3
62011	0.13	0.02	0.013	0.29	0.024	11.6
62146	0.13	0.03	0.013	0.30	0.025	10.4
62147	0.14	0.03	0.016	0.30	0.027	11.9
62265	0.13	0.03	0.012	0.33	0.027	9.5
62266	0.12	0.02	0.013	0.29	0.025	11.5
62340	0.17	0.03	0.014	0.29	0.024	11.5
62341	0.17	0.03	0.014	0.29	0.025	11.5
62342	0.18	0.03	0.015	0.30	0.025	11.6
62354	0.14	0.03	0.014	0.29	0.025	10.3
62355	0.14	0.03	0.013	0.31	0.024	10.7

Tensile test (ISO 6892-1)

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
	[C11]	[C12]	[C13]	[C14]
max	65,000	95,000		0.85
min	50,000	65,000	21.0	
61984/1	60,916	72,954	38.3	0.83
61984/2	61,496	73,389	38.3	0.84
61987	60,626	73,244	37.0	0.83

Z03 Works inspector
René Merbach

Z02 28.09.2022



**STAHLWERK
THÜRINGEN**

A03 Certificate No. 2392/9-2022
Advice No.

A02 Test Report

according to ASTM A6



A01 Stahlwerk Thüringen GmbH
A05 Quality Assurance Department
Kronacher Straße 6
07333 Unterwellenborn
Germany

A08 Our Order No.: 20021377
A07 Your Order No.: PUR3001913_1

B02 Quality: GRADE 50 TRI
according to: CSA G40.21 50W/ASTM
A572 GRADE 50/A992
(TRIPLE CERTIFIED)

Tensile test (ISO 6892-1)

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
	[C11]	[C12]	[C13]	[C14]
	65,000	95,000		0.85
	50,000	65,000	21.0	
62007/1	59,756	74,259	35.6	0.80
62007/2	59,320	74,694	35.6	0.79
62011/1	55,840	73,824	39.6	0.76
62011/2	56,420	73,099	39.6	0.77
62146/1	56,275	76,145	34.3	0.74
62146/2	57,145	75,855	34.3	0.75
62147/1	58,160	72,809	34.3	0.80
62147/2	58,885	72,229	34.3	0.82
62265/1	59,756	73,969	38.3	0.81
62265/2	59,320	74,259	38.3	0.80
62266/1	61,206	75,710	34.3	0.81
62266/2	60,046	76,290	34.3	0.79
62340/1	59,030	71,068	39.6	0.83
62340/2	58,450	71,939	39.6	0.81
62341	57,290	71,359	40.9	0.80
62342/1	57,870	72,229	37.0	0.80
62342/2	58,450	72,809	37.0	0.80
62354/1	57,580	72,664	37.0	0.79
62354/2	57,145	73,389	38.3	0.78
62355/1	57,000	75,565	34.3	0.75
62355/2	57,435	75,130	34.3	0.76

Z01
- electric arc melting
- Melted & Manufactured in Germany

Material for galvanization. Si: 0.14% - 0.25%

We confirm herewith that the delivered material complies with the terms of the order.

Z03 Works inspector
René Merbach

Z02 28.09.2022