

HEBEI XINFENG HIGH PRESSURE FLANGE AND PIPE FITTING CO., LTD

MILL TEST CERTIFICATE(EN 10204-3.1)

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1211,1212,1213,1214,1215

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
1	1500	PCS	SEAMLESS ELBOWS 90-DIN 2605 21.3*2.3mm 1/2"	1211	210129-1
2	6000	PCS	SEAMLESS ELBOWS 90-DIN 2605 26.9*2.3mm 3/4"	1212	210129-2
3	7000	PCS	SEAMLESS ELBOWS 90-DIN 2605 33.7*2.6mm 1"	1213	210129-3
4	4000	PCS	SEAMLESS ELBOWS 90-DIN 2605 42.4*2.6mm 5/4"	1214	210129-4
5	4000	PCS	SEAMLESS ELBOWS 90-DIN 2605 48.3*2.6mm 6/4"	1215	210129-5

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1211	0.110	0.210	0.710	0.012	0.008	0.210	0.008	0.120	0.001	0.01	0.12	0.01	0.02	
1212	0.100	0.220	0.720	0.013	0.007	0.120	0.009	0.140	0.008	0.01	0.13	0.03	0.01	
1213	0.130	0.200	0.720	0.010	0.010	0.160	0.006	0.180	0.002	0.02	0.20	0.02	0.01	
1214	0.100	0.200	0.720	0.009	0.007	0.130	0.010	0.110	0.001	0.01	0.11	0.01	0.02	
1215	0.110	0.190	0.740	0.008	0.006	0.120	0.008	0.140	0.008	0.02	0.12	0.03	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-1	Φ12.5			Tr		RT	245	415	36	51	161	41	41	44	42
210129-2	Φ12.5			Tr		RT	240	420	38	50	163	42	54	45	47
210129-3	Φ12.5			Tr		RT	250	425	39	52	160	43	52	46	47
210129-4	Φ12.5			Tr		RT	255	425	38	52	160	40	41	44	42
210129-5	Φ12.5			Tr		RT	250	420	39	50	163	42	54	45	47

T : top, B : bottom, L : longitudinal, Tr : transverse, RT : room temperature

Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

We hereby certify that the materials described herein have been manufactured,inspected and tested in accordance with the customer's specification(s),and that they satisfy the requirements.

Manufacturer: HEBEI XINFENG HIGH-PRESSURE FLANGE

河北鑫丰高压法兰管件有限公司
HEBEI XINFENG HIGH-PRESSURE
FLANGE AND PIPE FITTING CO., LTD.

张振泉

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1216,2311,2312,1314,1315

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
6	2000	PCS	SEAMLESS ELBOWS 90-DIN 2605 60.3*2.9mm 2"	1216	210129-6
7	1400	PCS	SEAMLESS ELBOWS 90-DIN 2605 76.1*2.9mm 2 1/2"	2311	210129-7
8	1000	PCS	SEAMLESS ELBOWS 90-DIN 2605 88.9*3.2mm 3"	2312	210129-8
9	400	PCS	SEAMLESS ELBOWS 90-DIN 2605 108*3.6mm 4"	1314	210129-9
10	400	PCS	SEAMLESS ELBOWS 90-DIN 2605 114.3*3.6mm 4"	1315	210129-10

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1216	0.130	0.210	0.750	0.006	0.005	0.150	0.006	0.150	0.002	0.02	0.20	0.02	0.03	
2311	0.140	0.200	0.730	0.012	0.010	0.180	0.005	0.140	0.008	0.01	0.22	0.02	0.02	
2312	0.110	0.210	0.710	0.008	0.008	0.120	0.008	0.110	0.002	0.02	0.11	0.01	0.01	
1314	0.120	0.220	0.730	0.010	0.009	0.110	0.009	0.140	0.008	0.03	0.13	0.03	0.01	
1315	0.140	0.210	0.710	0.013	0.008	0.170	0.005	0.110	0.009	0.01	0.21	0.01	0.02	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-6	Φ12.5			Tr		RT	265	430	42	52	162	43	50	46	46
210129-7	Φ12.5			Tr		RT	256	435	40	53	164	46	52	48	49
210129-8	Φ12.5			Tr		RT	250	420	39	52	160	47	41	44	44
210129-9	Φ12.5			Tr		RT	260	430	36	51	160	42	50	45	46
210129-10	Φ12.5			Tr		RT	256	430	40	54	162	51	52	47	50

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1316,1317,1318,1319,1325

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
11	150	PCS	SEAMLESS ELBOWS 90-DIN 2605 133*4mm 5"	1316	210129-11
12	150	PCS	SEAMLESS ELBOWS 90-DIN 2605 139.7*4mm 5"	1317	210129-12
13	150	PCS	SEAMLESS ELBOWS 90-DIN 2605 159*4.5mm 6"	1318	210129-13
14	150	PCS	SEAMLESS ELBOWS 90-DIN 2605 168.3*4.5mm 6"	1319	210129-14
15	100	PCS	SEAMLESS ELBOWS 90-DIN 2605 219.1*6.3mm 8"	1325	210129-15

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1316	0.140	0.200	0.710	0.011	0.008	0.140	0.006	0.120	0.001	0.02	0.21	0.02	0.02	
1317	0.140	0.210	0.730	0.012	0.010	0.012	0.010	0.130	0.005	0.01	0.13	0.01	0.02	
1318	0.100	0.200	0.710	0.013	0.011	0.013	0.011	0.120	0.002	0.01	0.12	0.01	0.01	
1319	0.200	0.210	0.710	0.006	0.009	0.150	0.008	0.150	0.004	0.02	0.16	0.01	0.01	
1325	0.190	0.210	0.720	0.012	0.012	0.180	0.005	0.140	0.005	0.01	0.17	0.01	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-11	Φ12.5			Tr		RT	265	435	37	52	162	43	51	48	47
210129-12	Φ12.5			Tr		RT	250	450	38	51	162	40	42	44	42
210129-13	Φ12.5			Tr		RT	261	452	39	53	163	42	45	41	43
210129-14	Φ12.5			Tr		RT	263	451	40	52	160	43	48	43	45
210129-15	Φ12.5			Tr		RT	264	453	41	53	162	46	49	48	48

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1414,1415,1661

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
16	150	PCS	SEAMLESS CON.REDUCER- DIN 2616 33,7*26,9	1414	210129-16
17	100	PCS	SEAMLESS CON.REDUCER- DIN 2616 42,4*26,9	1415	210129-17
18	100	PCS	SEAMLESS CON.REDUCER- DIN 2616 42,4*33,7	1415	210129-17
19	200	PCS	SEAMLESS CON.REDUCER- DIN 2616 48,3*21,3	1661	210129-18
20	300	PCS	SEAMLESS CON.REDUCER- DIN 2616 48,3*33,7	1661	210129-18
21	300	PCS	SEAMLESS CON.REDUCER- DIN 2616 48,3*42,4	1661	210129-18

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1414	0.210	0.220	0.740	0.010	0.013	0.110	0.004	0.120	0.007	0.02	0.15	0.02	0.02	
1415	0.130	0.230	0.720	0.010	0.011	0.013	0.002	0.120	0.007	0.01	0.13	0.02	0.03	
1661	0.100	0.200	0.710	0.013	0.011	0.013	0.011	0.120	0.002	0.01	0.12	0.01	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-16	Φ12.5			Tr		RT	262	450	42	55	164	46	50	49	48
210129-17	Φ12.5			Tr		RT	275	440	46	56	163	44	50	53	49
210129-18	Φ12.5			Tr		RT	270	450	49	52	160	46	51	53	50

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1668,1451,1458

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
22	100	PCS	SEAMLESS CON.REDUCER- DIN 2616 60,3*26,9	1668	210129-19
23	200	PCS	SEAMLESS CON.REDUCER- DIN 2616 60,3*42,4	1668	210129-19
24	300	PCS	SEAMLESS CON.REDUCER- DIN 2616 60,3*48,3	1668	210129-19
25	300	PCS	SEAMLESS CON.REDUCER- DIN 2616 76,1*60,3	1451	210129-20
26	300	PCS	SEAMLESS CON.REDUCER- DIN 2616 88,9*60,3	1458	210129-21
27	150	PCS	SEAMLESS CON.REDUCER- DIN 2616 88,9*76,1	1458	210129-21

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1668	0.120	0.210	0.720	0.012	0.010	0.011	0.010	0.130	0.001	0.02	0.12	0.02	0.03	
1451	0.130	0.220	0.730	0.011	0.011	0.012	0.009	0.120	0.002	0.01	0.11	0.01	0.02	
1458	0.120	0.210	0.740	0.013	0.009	0.013	0.008	0.110	0.003	0.03	0.10	0.02	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-19	Φ12.5				Tr	RT	280	455	49	50	161	47	50	52	50
210129-20	Φ12.5				Tr	RT	275	460	42	51	160	43	51	53	49
210129-21	Φ12.5				Tr	RT	270	470	41	51	162	42	52	51	48

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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MILL TEST CERTIFICATE(EN 10204-3.1)

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1445,1441

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
28	50	PCS	SEAMLESS CON.REDUCER- DIN 2616 114,3*76,1	1445	210129-22
29	150	PCS	SEAMLESS CON.REDUCER- DIN 2616 114.3*88.9	1445	210129-22
30	30	PCS	SEAMLESS CON.REDUCER- DIN 2616 133*114,3	1441	210129-23

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1445	0.120	0.210	0.740	0.013	0.009	0.013	0.008	0.110	0.003	0.03	0.10	0.02	0.01	
1441	0.140	0.200	0.710	0.012	0.008	0.011	0.007	0.130	0.001	0.02	0.11	0.03	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-22	Φ12.5			Tr		RT	270	470	41	51	162	42	52	48	47
210129-23	Φ12.5			Tr		RT	270	465	43	52	160	44	51	52	49

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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MILL TEST CERTIFICATE(EN 10204-3.1)

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Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1658,1689,1641,1642,1643

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
31	200	PCS	SEAMLESS TEE-DIN 2615 21,3*2,3	1658	210129-24
32	300	PCS	SEAMLESS TEE-DIN 2615 26,7*2,3	1689	210129-25
33	200	PCS	SEAMLESS TEE-DIN 2615 33,4*2,6	1641	210129-26
34	100	PCS	SEAMLESS TEE-DIN 2615 60,3*2,9	1642	210129-27
35	50	PCS	SEAMLESS TEE-DIN 2615 76,3*2,9	1643	210129-28

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1658	0.140	0.200	0.710	0.012	0.008	0.011	0.007	0.130	0.001	0.02	0.11	0.03	0.01	
1689	0.120	0.210	0.750	0.009	0.007	0.010	0.006	0.120	0.002	0.01	0.11	0.02	0.03	
1641	0.120	0.210	0.750	0.009	0.007	0.010	0.006	0.120	0.002	0.01	0.11	0.02	0.03	
1642	0.110	0.190	0.720	0.008	0.006	0.010	0.005	0.120	0.001	0.01	0.10	0.03	0.03	
1643	0.130	0.210	0.720	0.007	0.006	0.012	0.009	0.130	0.001	0.02	0.12	0.01	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{cH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-24	Φ12.5			Tr		RT	465	43	52	160	44	51	52	48	50
210129-25	Φ12.5			Tr		RT	450	44	53	161	42	55	50	44	50
210129-26	Φ12.5			Tr		RT	265	450	44	53	161	42	55	50	49
210129-27	Φ12.5			Tr		RT	270	465	42	52	160	41	58	42	47
210129-28	Φ12.5			Tr		RT	260	445	41	51	163	43	59	43	48

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Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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MILL TEST CERTIFICATE(EN 10204-3.1)

Page: 8/9

Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1644,1645,1646,1647

Content of delivery:

Item No.	Quantity	PCS	Description/Artical	Heat No.	Specimen No
36	100	PCS	SEAMLESS TEE-DIN 2615 21,3*2,3	1644	210129-24
37	30	PCS	SEAMLESS TEE-DIN 2615 26,7*2,3	1645	210129-25
38	50	PCS	SEAMLESS TEE-DIN 2615 33,4*2,6	1646	210129-26
39	10	PCS	SEAMLESS TEE-DIN 2615 60,3*2,9	1647	210129-27

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1644	0.140	0.200	0.730	0.010	0.009	0.013	0.012	0.120	0.003	0.03	0.14	0.02	0.04	
1645	0.120	0.210	0.740	0.012	0.010	0.011	0.010	0.130	0.001	0.02	0.12	0.02	0.03	
1646	0.130	0.190	0.750	0.009	0.008	0.010	0.007	0.120	0.002	0.01	0.11	0.02	0.03	
1647	0.150	0.220	0.720	0.007	0.006	0.012	0.011	0.140	0.001	0.02	0.12	0.01	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-24	Φ12.5			Tr		RT	250	430	43	56	164	46	53	45	48
210129-25	Φ12.5			Tr		RT	280	455	49	50	161	47	50	52	50
210129-26	Φ12.5			Tr		RT	265	450	44	55	160	42	54	50	49
210129-27	Φ12.5			Tr		RT	268	452	42	50	163	45	55	43	48

T : top, B : bottom, L : longitudinal, Tr : transverse, RT : room temperature

Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

We hereby certify that the materials described herein have been manufactured,inspected and tested in accordance with the customer's specification(s),and that they satisfy the requirements.

Manufacturer: HEBEI XINFENG HIGH-PRESSURE FLANGE

HEBEI XINFENG HIGH-PRESSURE
FLANGE AND PIPE FITTING CO., LTD

张振泉

HEBEI XINFENG HIGH PRESSURE FLANGE AND PIPE FITTING CO., LTD

MILL TEST CERTIFICATE(EN 10204-3.1)

Page: 8/9

Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :1644,1645,1646,1647

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
36	100	PCS	SEAMLESS TEE-DIN 2615 21,3*2,3	1644	210129-24
37	30	PCS	SEAMLESS TEE-DIN 2615 26,7*2,3	1645	210129-25
38	50	PCS	SEAMLESS TEE-DIN 2615 33,4*2,6	1646	210129-26
39	10	PCS	SEAMLESS TEE-DIN 2615 60,3*2,9	1647	210129-27

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
1644	0.140	0.200	0.730	0.010	0.009	0.013	0.012	0.120	0.003	0.03	0.14	0.02	0.04	
1645	0.120	0.210	0.740	0.012	0.010	0.011	0.010	0.130	0.001	0.02	0.12	0.02	0.03	
1646	0.130	0.190	0.750	0.009	0.008	0.010	0.007	0.120	0.002	0.01	0.11	0.02	0.03	
1647	0.150	0.220	0.720	0.007	0.006	0.012	0.011	0.140	0.001	0.02	0.12	0.01	0.01	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-24	Φ12.5			Tr		RT	250	430	43	56	164	46	53	45	48
210129-25	Φ12.5			Tr		RT	280	455	49	50	161	47	50	52	50
210129-26	Φ12.5			Tr		RT	265	450	44	55	160	42	54	50	49
210129-27	Φ12.5			Tr		RT	268	452	42	50	163	45	55	43	48

T : top, B : bottom, L : longitudinal, Tr : transverse, RT : room temperature

Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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MILL TEST CERTIFICATE(EN 10204-3.1)

Page: 9/9

Customer : AMD STEEL d.o.o.

Certificate No : XFALT2002

Article: Butt welding fittings

Date of report : 2021.1.29

Specification : DIN2605

Mark of Manufacturer: XF

Material :P235GH

Heat Batch No :5119,5118,5454,5455,
5456,5457

Content of delivery:

Item No.	Quantity		Description/Artical	Heat No.	Specimen No
40	5000	PCS	BLACK SOCKET DIN2986 3/4"	5119	210129-28
41	5000	PCS	BLACK SOCKET DIN2986 1"	5118	210129-29
42	5000	PCS	BLACK SOCKET DIN2986 5/4"	5454	210129-30
43	100	PCS	BLACK SOCKET DIN2986 2 1/2"	5455	210129-31
44	50	PCS	BLACK SOCKET DIN2986 3"	5456	210129-32
45	20	PCS	BLACK SOCKET DIN2986 4"	5457	210129-33

Chemical Analysis: (%)

Heat No.	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	Al%	Ti%	Cu%	V%	Nb%	CE%
5119	0.110	0.160	0.700	0.009	0.007	0.014	0.012	0.130	0.003	0.03	0.14	0.02	0.02	
5118	0.130	0.180	0.760	0.008	0.008	0.012	0.011	0.130	0.001	0.01	0.12	0.01	0.02	
5454	0.160	0.190	0.750	0.006	0.006	0.010	0.015	0.110	0.003	0.02	0.10	0.01	0.01	
5455	0.120	0.210	0.720	0.012	0.010	0.011	0.010	0.130	0.001	0.02	0.12	0.02	0.03	
5456	0.140	0.190	0.730	0.009	0.008	0.013	0.008	0.120	0.002	0.01	0.11	0.02	0.01	
5457	0.150	0.210	0.720	0.007	0.006	0.012	0.010	0.140	0.003	0.02	0.12	0.01	0.02	

Mechanical Properties :

Specimen No	Dim. Of specimen		Sampling of specime			Test temp	A370-2007					A370-2007			
							Yield strength	Tensile Strength	Elongation	Reduction of area	Hardness	Energy of impact test KV at temp 20°C (ISO-V specimen) Charpy size 10mm×10mm×55mm			
	Thickness	Width	Location	Directi on	Position		R _{eH} N/mm ²	R _m N/mm ²	A %	Z %	HB	Joule(>27j)			
210129-28	Φ12.5				Tr	RT	258	428	42	50	160	49	50	49	49
210129-29	Φ12.5				Tr	RT	255	435	40	54	162	48	52	51	50
210129-30	Φ12.5				Tr	RT	260	440	42	55	158	45	51	49	48
210129-31	Φ12.5				Tr	RT	262	445	46	56	162	46	53	48	49
210129-32	Φ12.5				Tr	RT	265	439	45	57	155	47	52	46	48
210129-33	Φ12.5				Tr	RT	260	435	47	55	165	44	56	49	50

T : top, B : bottom, L : longitudinal, Tr : transverse, RT : room temperature

Visual inspection:

Without Complaint

Dimensional check :

Without Complaint

Surface crack inspection:

Without Complaint

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Manufacturer: HEBEI XINFENG HIGH-PRESSURE FLANGE

AND PIPE FITTING CO., LTD

河北鑫丰高压法兰管件有限公司
 HEBEI XINFENG HIGH-PRESSURE
 FLANGE AND PIPE FITTING CO., LTD
 张振泉