



# MILL TEST CERTIFICATE

ORDER:AMD STEEL D.0.0  
 MANUFACTURER:HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD  
 PRODUCT NAME:CARBON STEEL PIPE FITTINGS

PORT OF DESPATCH:TIANJIN PORT CHINA  
 PORT OF DESTINATION:  
 DATE OF ISSUE:May 12, 2014

## HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

PRODUCT STANDARD:DIN 2986				SURFACE PROTECTION:ANTIRUST PAINT				PACKING REQUIREMENTS:WOODEN CASE									
NO.	SAMPLE PRODUCT NAME			MATERIAL STANDARD	UNIT	QUANTITY	HEAT NO.	SURFACE QUALITY	GEOMETRY DIMENSION	HEAT TREATMENT							
1	BLACK SOCKET DIN2986	1"		C22.8	PCS	5	12453	SATISFACTION	SATISFACTION	HOT FORMED AT 910°C							
2	BLACK SOCKET DIN2986	2"		C22.8	PCS	100	12453	SATISFACTION	SATISFACTION								
3	BLACK SOCKET DIN2986	3"		C22.8	PCS	200	12453	SATISFACTION	SATISFACTION								
4	BLACK SOCKET DIN2986	4"		C22.8	PCS	150	12453	SATISFACTION	SATISFACTION	NONDESTRUCTIVE TEST							
5	BLACK SOCKET DIN2986	1-1/4"		C22.8	PCS	134	12453	SATISFACTION	SATISFACTION								
CHEMICAL COMPOSITION AND MECHANICAL PROPERTY OF THE RAW MATERIAL																	
NO.	CHEMICAL COMPOSITION(%)										MECHANICAL PROPERTY			HARDNESS HB			
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	OTHER	(σ bMpa) TENSI	(σ SMpa) YIELD STRENGTH	(δ %) ELONGA				
MIN	0.18	0.40			0.20		-	-	-	-	-	-	-	-	-	-	
MAX	0.23	0.90	0.035	0.058	0.40	0.30	-	-	-	-	-	-	-	415-	240(min)	30(min)	197(max)
1	0.21	0.48	0.025	0.030	0.22	0.12	-	-	-	-	-	-	-	458	246	33	176
2	0.20	0.50	0.028	0.044	0.18	0.07	-	-	-	-	-	-	-	462	250	35	167
3	0.18	0.47	0.039	0.038	0.22	0.05	-	-	-	-	-	-	-	462	250	35	165
4	0.21	0.49	0.025	0.032	0.18	0.09	-	-	-	-	-	-	-	462	250	35	169
5	0.19	0.50	0.029	0.042	0.15	0.10	-	-	-	-	-	-	-	462	250	35	179

河北冀孟高压法兰管件集团有限公司  
 HEBEI JIMENG HIGHSTRENGTH  
 FLANG-TUBES GROUP CO., LTD

张恩南



# MILL TEST CERTIFICATE

ORDER:AMD STEEL D. O. O  
 MANUFACTURER:HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO., LTD  
 PRODUCT NAME:CARBON STEEL PIPE FITTINGS

PORT OF DESPATCH:TIANJIN PORT CHINA  
 PORT OF DESTINATION:  
 DATE OF ISSUE:July 25, 2014

## HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

PRODUCT STANDARD:DIN 2605				SURFACE PROTECTION:ANTIRUST PAINT				PACKING REQUIREMENTS:WOODEN CASE									
NO.	SAMPLE PRODUCT NAME			MATERIAL STANDARD	UNIT	QUANTITY	HEAT NO.	SURFACE QUALITY	GEOMETRY DIMENSION	HEAT TREATMENT							
1	ELBOWS 90-DIN 2605 LR	26.9*2.3mm		C22.8	PCS	90	15232	SATISFACTION	SATISFACTION	HOT FORMED AT 910°C							
2	ELBOWS 90-DIN 2605 LR	48.3*2.6mm		C22.8	PCS	190	15232	SATISFACTION	SATISFACTION								
3	ELBOWS 90-DIN 2605 LR	159*4.5mm		C22.8	PCS	280	15232	SATISFACTION	SATISFACTION								
4	ELBOWS 90-DIN 2605 LR	76.1*2.9mm		C22.8	PCS	330	15232	SATISFACTION	SATISFACTION	NONDESTRUCTIVE TEST							
5	ELBOWS 90-DIN 2605 LR	168.3*4.5mm		C22.8	PCS	120	15232	SATISFACTION	SATISFACTION								
CHEMICAL COMPOSITION AND MECHANICAL PROPERTY OF THE RAW MATERIAL																	
NO.	CHEMICAL COMPOSITION(%)										MECHANICAL PROPERTY			HARDNESS HB			
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	OTHER	(σ <sub>b</sub> Mpa) TENSI	(σ <sub>s</sub> Mpa) YIELD STRENGTH	(δ %) ELONGA				
MIN	0.18	0.40			0.20		-	-	-	-	-	-	-	-	-	-	
MAX	0.23	0.90	0.035	0.058	0.40	0.30	-	-	-	-	-	-	-	415-	240(min)	30(min)	197(max)
1	0.21	0.48	0.025	0.030	0.22	0.12	-	-	-	-	-	-	-	458	248	33	179
2	0.20	0.50	0.028	0.044	0.18	0.07	-	-	-	-	-	-	-	462	252	31	166
3	0.18	0.47	0.039	0.038	0.22	0.05	-	-	-	-	-	-	-	462	252	31	171
4	0.21	0.49	0.025	0.032	0.18	0.09	-	-	-	-	-	-	-	462	252	31	162
5	0.19	0.50	0.029	0.042	0.15	0.10	-	-	-	-	-	-	-	462	252	31	172

河北冀孟高压法兰管件集团有限公司  
 HEBEI JIMENG HIGHSTRENGTH  
 FLANG-TUBES GROUP CO., LTD

张恩南



河北冀孟高压法兰管件集团有限公司材质证明书

MILL CERTIFICATE OF HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

河北冀孟高压法兰管件集团有限公司

HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD

INDUSTRIAL DISTRICT OF NORTH CIRCLE, MENGUN CANGZHOU, HEBEI PROVINCE CHINA

ORDER: No. AMD 01 IN ACCORDANCE WITH DIN MATERIAL USED S235 JRH

PRODUCTS DESCRIPTION	QTY	HEAT	MATERIAL	CHEMICAL COMPOSITION					MECHANICAL PROPERTIES			IMPACT TEST			
				C	Si	Mn	P	S	Ys a s	Ts a b	EL. S 5	TEST VALUE J			AVG
				%	%	%	%	%	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	1	2	3	
DIN2633 PN16 DN25	550	141102	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN2633 PN16 DN40	880	141102	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN65	736	141103	S235JRH	0.17	0.21	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN80	680	141104	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN100	840	141105	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN125	560	141106	S235JRH	0.17	0.21	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN150	340	141107	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2633 PN16 DN200	124	141108	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN6 DN40	480	141109	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN6 DN65	340	141110	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN6 DN80	208	141111	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN16 DN15	900	141112	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN16 DN50	720	141113	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	102	104	100	102
DIN 2631 PN16 DN65	800	141114	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	102	104	100	102
DIN 2631 PN16 DN80	620	141115	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	102	104	100	102
DIN 2631 PN16 DN100	520	141116	S235JRH	0.16	0.22	0.35	0.015	0.017	264	402	28	102	104	100	102
DIN 2631 PN16 DN 125	384	141117	S235JRH	0.17	0.21	0.35	0.015	0.017	264	402	28	102	104	100	102
DIN 2631 PN16 DN150	312	141118	S235JRH	0.17	0.21	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN16 DN200	212	141119	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN16 DN250	36	141120	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2631 PN16 DN300	27	141121	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2576 PN10 DN50	210	141122	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2576 PN10 DN65	165	141123	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102
DIN 2576 PN10 DN100	105	141124	S235JRH	0.17	0.22	0.35	0.015	0.017	264	402	28	106	104	96	102

Customer:  
AMD STEEL D.O.O.  
21220 Bečej,Glavna 59,Serbia

Seller:  
HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD  
INDUSTRIAL DISTRICT OF NORTH CIRCLE, MENGUN CANGZHOU, HEBEI PROVINCE CHINA

河北冀孟高压法兰管件集团有限公司  
HEBEI JIMENG HIGHSTRENGTH  
FLANG-TUBES GROUP CO., LTD

张恩-南



河北冀孟高压法兰管件集团有限公司材质证明书

MILL CERTIFICATE OF HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

河北冀孟高压法兰管件集团有限公司

DATE:09.06.2014

HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD

ORDER NO. JM0609

INDUSTRIAL DISTRICT OF NORTH CIRCLE, MENGUN CANGZHOU, HEBEI PROVINCE CHINA

DELIVERY NOTE:20140731

IN ACCORDANCE WITH DIN17243:1987 CARBON STEEL C22.8

PRODUCTS DESCRIPTION	QTY	MATERIAL	CHEMICAL COMPOSITION							MECHANICAL PROPERTIES		
			C	Si	Mn	P	Cr	S	Ys a s	Ts a b	EL S 5	
			%	%	%	%	%	%	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	
DIN 2633 PN16 DN25	550	C22.8	0.18	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN2633 PN16 DN40	880	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN65	736	C22.8	0.18	0.21	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN80	680	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN100	840	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN125	560	C22.8	0.19	0.21	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN150	340	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2633 PN16 DN200	124	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2631 PN6 DN40	480	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2631 PN6 DN65	340	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2631 PN6 DN80	208	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2576 PN10 DN50	210	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2576 PN10 DN65	165	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	
DIN 2576 PN10 DN100	105	C22.8	0.19	0.22	0.45	0.025	0.3	0.017	364	502	38	

Customer:  
AMD STEEL D.O.O.  
21220 Bečej,Glavna 59,Serbia

Seller:  
HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD  
INDUSTRIAL DISTRICT OF NORTH CIRCLE, MENGUN CANGZHOU, HEBEI PROVINCE CHINA

河北冀孟高压法兰管件集团有限公司  
HEBEI JIMENG HIGHSTRENGTH  
FLANG-TUBES GROUP CO., LTD  
张恩-南



# MILL TEST CERTIFICATE

ORDER:AMD STEEL D.0.0  
 MANUFACTURER:HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO.,LTD  
 PRODUCT NAME:CARBON STEEL PIPE FITTINGS

PORT OF DESPATCH:TIANJIN PORT CHINA  
 PORT OF DESTINATION:  
 DATE OF ISSUE:May 15, 2014

## HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

PRODUCT STANDARD: DIN 2616			SURFACE PROTECTION:ANTIRUST PAINT				PACKING REQUIREMENTS:WOODEN CASE										
NO.	SAMPLE PRODUCT NAME		MATERIAL STANDARD	UNIT	QUANTITY	HEAT NO.	SURFACE QUALITY	GEOMETRY DIMENSION	HEAT TREATMENT								
1	CON. REDUCER- DIN 2616	42,4*21,3	C22. 8	PCS	900	56348	SATISFACTION	SATISFACTION	HOT FORMED AT 910°C								
2	CON. REDUCER- DIN 2616	48,3*42,4	C22. 8	PCS	190	87435	SATISFACTION	SATISFACTION									
3	CON. REDUCER- DIN 2616	60,3*48,3	C22. 8	PCS	200	68543	SATISFACTION	SATISFACTION									
4	CON. REDUCER- DIN 2616	76,1*42,4	C22. 8	PCS	400	54386	SATISFACTION	SATISFACTION	NONDESTRUCTIVE TEST								
5	CON. REDUCER- DIN 2616	139,7*114,3	C22. 8	PCS	350	78652	SATISFACTION	SATISFACTION									
6	CON. REDUCER- DIN 2616	168*114,3	C22. 8	PCS	180	78256	SATISFACTION	SATISFACTION	-								
7	CON. REDUCER- DIN 2616	219,1*114,3	C22. 8	PCS	10	78345	SATISFACTION	SATISFACTION									
8	CON. REDUCER- DIN 2616	219,139,7	C22. 8	PCS	20	82345	SATISFACTION	SATISFACTION									
CHEMICAL COMPOSITION AND MECHANICAL PROPERTY OF THE RAW MATERIAL																	
NO.	CHEMICAL COMPOSITION (%)											MECHANICAL PROPERTY			HARDNESS HB		
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	OTHER			(σ bMpa) TENSIL	(σ SMpa) YIELD STRENGTH		(δ %) ELONGA	
MIN	0.18	0.40			0.20		-	-	-	-	-	-	-	-	-	-	-
MAX	0.23	0.90	0.035	0.058	0.40	0.30	-	-	-	-	-	-	-	415-	240 (min)	30 (min)	197 (max)
1	0.21	0.48	0.025	0.030	0.22	0.12	-	-	-	-	-	-	-	458	248	31	179
2	0.20	0.50	0.028	0.044	0.18	0.07	-	-	-	-	-	-	-	458	252	31	180
3	0.18	0.47	0.039	0.038	0.22	0.05	-	-	-	-	-	-	-	458	252	31	181
4	0.21	0.49	0.025	0.032	0.18	0.09	-	-	-	-	-	-	-	458	252	31	182
5	0.19	0.50	0.029	0.042	0.15	0.10	-	-	-	-	-	-	-	458	252	31	183
6	0.20	0.49	0.025	0.035	0.16	0.08	-	-	-	-	-	-	-	458	248	31	184
7	0.19	0.50	0.021	0.042	0.16	0.05	-	-	-	-	-	-	-	458	248	31	185
8	0.21	0.50	0.029	0.048	0.18	0.05	-	-	-	-	-	-	-	458	248	31	186

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 HEBEI JIMENG HIGHSTRENGTH  
 FLANG-TUBES GROUP CO., LTD

张恩南



# MILL TEST CERTIFICATE

ORDER:AMD STEEL D. O. O  
 MANUFACTURER:HEBEI JIMENG HIGHSTRENGTH FLANG-TUBES GROUP CO., LTD  
 PRODUCT NAME:CARBON STEEL PIPE FITTINGS

PORT OF DESPATCH:TIANJIN PORT CHINA  
 PORT OF DESTINATION:  
 DATE OF ISSUE:Jan 5, 2014

## HEBEI JIMENG HIGHSTRENGTH FLANGE-TUBES GROUP CO., LTD

PRODUCT STANDARD:DIN 2615				SURFACE PROTECTION:ANTIRUST PAINT				PACKING REQUIREMENTS:WOODEN CASE									
NO.	SAMPLE PRODUCT NAME			MATERIAL STANDARD	UNIT	QUANTITY	HEAT NO.	SURFACE QUALITY	GEOMETRY DIMENSION	HEAT TREATMENT							
1	TEE-DIN 2615	42,2*2,6		C22. 8	PCS	100	4657	SATISFACTION	SATISFACTION	HOT FORMED AT 910°C							
2	TEE-DIN 2615	26,7*2,3		C22. 8	PCS	50	4657	SATISFACTION	SATISFACTION								
3	TEE-DIN 2615	33,4*2,6		C22. 8	PCS	150	4657	SATISFACTION	SATISFACTION								
4	TEE-DIN 2615	21,3*2,3		C22. 8	PCS	250	4657	SATISFACTION	SATISFACTION	NONDESTRUCTIVE TEST							
5	TEE-DIN 2615	60,3*2,9		C22. 8	PCS	300	4657	SATISFACTION	SATISFACTION								
CHEMICAL COMPOSITION AND MECHANICAL PROPERTY OF THE RAW MATERIAL																	
NO.	CHEMICAL COMPOSITION(%)										MECHANICAL PROPERTY			HARDNESS HB			
	C	Mn	P	S	Si	Cr	Mo	Ni	Cu	OTHER	(σ bMpa) TENSI	(σ SMpa) YIELD STRENGTH	(δ %) ELONGA				
MIN	0. 18	0. 40			0. 20		-	-	-	-	-	-	-				
MAX	0. 23	0. 90	0. 035	0. 058	0. 40	0. 30	-	-	-	-	-	-	-	415-	240(min)	30(min)	197(max)
1	0. 21	0. 48	0. 025	0. 030	0. 22	0. 12	-	-	-	-	-	-	-	458	248	33	179
2	0. 20	0. 50	0. 028	0. 044	0. 18	0. 07	-	-	-	-	-	-	-	462	252	31	166
3	0. 18	0. 47	0. 039	0. 038	0. 22	0. 05	-	-	-	-	-	-	-	462	252	31	171
4	0. 21	0. 49	0. 025	0. 032	0. 18	0. 09	-	-	-	-	-	-	-	462	252	31	162
5	0. 19	0. 50	0. 029	0. 042	0. 15	0. 10	-	-	-	-	-	-	-	462	252	31	172

河北冀孟高压法兰管件集团有限公司  
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