



CERTIFICATE OF QUALITY
Inspection Certificate acc. to EN10204-3.1
根据欧盟 EN10204 标准的 3.1 检验证书
Certificate No./ 证书编号: IC-JYDS-2019030603

Customer/客户:	DAMSTAHL GMBH
Order No./订单号:	405.193/400
Article/品名:	Forged Flange/锻压法兰
Specification/技术条件:	EN10222-5 / DIN17440 / AD2000-W2,W9,W10 / ASME Sec. II Part A 2007-Add2009b and NACE MR01-75/MR01-03 – 2007 / ASME SA 182-2007 ADD2009b and ASTM A182 2007
Material grade/材料规格:	DIN17440 1.4307 and/or ASTM A182 F304L
Delivery condition/交货状态:	1050~1120℃×1~2h Solution treatment and quenched in water 1050~1120℃×1~2h 固溶水淬热处理
Melting process/熔炼方式:	Electric furnace/电炉熔炼
Marking/标识:	Manufacture's logo DNXX Or DNXX/XX PNXX Material DINXXX HEAT NO.
Stamp of manufacturer/制造厂钢印:	
Work inspector's stamp/工厂检验师钢印:	SZY

A. Content of the delivery/材料交货范围

Item No./序号	Quantity/数量	Description/规格	Heat No./炉号	Batch No./批号	Specimen No./试样号
37247	10PCS	ASME B16.5 150LBS WNRF SCH40 2 "	S181114AA12	19DSB124	S181114AA12/19DSB124
40289	30PCS	EN1092-1 TYP 01/A PN40 PLFF DN32/42.4	S181114AA06	19DSB125	S181114AA06/19DSB125
40296	10PCS	EN1092-1 TYP 01/A PN16 PLFF DN125/139.7	TH23687	19DSB126	TH23687/19DSB126
37393	10PCS	ASME B16.5 150LBS LJFF 4 "	TH23687	19DSB127	TH23687/19DSB127
40609	400PCS	EN1092-1 TYP 01/A PN16 PLFF B=10 DN50/60.3	S181114AA06	19DSB128	S181114AA06/19DSB128
40615	200PCS	EN1092-1 TYP 01/A PN16 PLFF B=10 DN80/88.9	S181114AA06	19DSB129	S181114AA06/19DSB129
40625	100PCS	EN1092-1 TYP 01/A PN16 PLFF B=12 DN150/168.3	S181125AS02	19DSB130	S181125AS02/19DSB130
40577	300PCS	EN1092-1 TYP 02/A PN16 PLFF B=10 DN50/60.3	S181114AA06	19DSB131	S181114AA06/19DSB131
40579	100PCS	EN1092-1 TYP 02/A PN16 PLFF B=10 DN65/76.1	S181114AA06	19DSB132	S181114AA06/19DSB132
40590	100PCS	EN1092-1 TYP 02/A PN16 PLFF B=12 DN125/139.7	S181114AA12	19DSB133	S181114AA12/19DSB133
40593	200PCS	EN1092-1 TYP 02/A PN16 PLFF B=12 DN150/168.3	TH23687	19DSB134	TH23687/19DSB134
40596	200PCS	EN1092-1 TYP 02/A PN10 PLFF B=15 DN200/219.1	TH23687	19DSB135	TH23687/19DSB135
40424	10PCS	EN1092-1 TYP 05/A PN16 BLFF DN125	TH23687	19DSB136	TH23687/19DSB136

B. Chemical analysis/化学分析

Heat-Batch No./炉批号	C%	Si%	Mn%	P%	S%	Cr%	Mo%	Ni%	N%
DIN17440: 1.4307	≤0.030	≤1.00	≤2.00	≤0.045	≤0.015	17.5-19.50	-	8-10.0	≤0.11
ASTM A182: F304L	≤0.035	≤1.00	≤2.00	≤0.045	≤0.030	18-20.0	-	8.0-13.0	-
S181114AA12/19DSB124	0.021	0.32	1.31	0.037	0.002	18.34	-	8.04	0.04
S181114AA06/19DSB125	0.017	0.45	1.34	0.036	0.003	18.11	-	8.03	0.03
TH23687/19DSB126	0.017	0.458	1.560	0.042	0.003	18.35	-	8.06	0.064
TH23687/19DSB127	0.017	0.458	1.560	0.042	0.003	18.35	-	8.06	0.064
S181114AA06/19DSB128	0.017	0.45	1.34	0.036	0.003	18.11	-	8.03	0.03
S181114AA06/19DSB129	0.017	0.45	1.34	0.036	0.003	18.11	-	8.03	0.03
S181125AS02/19DSB130	0.012	0.336	1.32	0.036	0.0032	18.52	-	8.02	0.02
S181114AA06/19DSB131	0.017	0.45	1.34	0.036	0.003	18.11	-	8.03	0.03
S181114AA06/19DSB132	0.017	0.45	1.34	0.036	0.003	18.11	-	8.03	0.03
S181114AA12/19DSB133	0.021	0.32	1.31	0.037	0.002	18.34	-	8.04	0.04
TH23687/19DSB134	0.017	0.458	1.560	0.042	0.003	18.35	-	8.06	0.064
TH23687/19DSB135	0.017	0.458	1.560	0.042	0.003	18.35	-	8.06	0.064
TH23687/19DSB136	0.017	0.458	1.560	0.042	0.003	18.35	-	8.06	0.064



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C. Mechanical properties tests/机械性能试验 Position of specimen/试样位置: Tangential/切向

试样号. Specimen	试验温度 TestTemp	屈服强度 Proof Strength N/mm ²		拉伸强度 Tensile Strength	延伸率 Elongation (Tr)	断面收缩率 Reduction of Area	冲击性能试验(ISO-V-RT) Impact energy (ISO-V-RT)				冲击性能试验(ISO-V --196℃) Impact energy (ISO-V --196℃)			
Nr. / No	RT 室温	R _{p0.2}	R _{p1.0}	R _m N/mm ²	A%	Ψ%	1	2	3	Avg	1	2	3	Avg
DIN17440: 1.4307		≥180	≥215	460-680	≥40%	-	-	-	-	(≥70)	-	-	-	(≥70)
ASTM A182: F304L		≥170	-	≥485	≥30%	≥50%	-	-	-	-	-	-	-	-
S181114AA12/19DSB12		235	270	575	58	63	209	210	216	212	114	111	116	114
S181114AA06/19DSB12		225	260	590	55	68	216	215	211	214	109	112	115	112
TH23687/19DSB126		240	275	555	53	64	215	209	214	213	116	115	108	113
TH23687/19DSB127		230	265	580	57	63	209	215	210	211	108	109	114	110
S181114AA06/19DSB12		250	285	565	54	66	214	208	207	210	115	107	108	110
S181114AA06/19DSB12		225	260	585	58	67	211	213	216	213	114	115	111	113
S181125AS02/19DSB13		235	270	570	53	65	215	208	209	211	108	113	114	112
S181114AA06/19DSB13		240	275	565	56	63	208	217	214	213	109	114	107	110
S181114AA06/19DSB13		220	255	575	55	62	213	215	209	212	111	108	115	111
S181114AA12/19DSB13		245	280	590	57	67	215	209	210	211	114	113	108	112
TH23687/19DSB134		235	270	585	54	66	209	211	215	212	109	115	111	112
TH23687/19DSB135		250	285	580	58	62	214	215	208	212	108	107	116	110
TH23687/19DSB136		230	265	565	53	65	209	210	216	212	115	116	110	114

D. Visual and dimensional inspection / 外观及尺寸检查: without complaint/合格

Intergranular corrosion test / 不锈钢晶界腐蚀试验: without complaint/合格

Positive Material Inspection test : without complaint/合格

E. The materials are manufactured according to a Quality management system approved and registered to ISO 9001 & PED 2014/68/EU by TUV Rhineland.

Place/地点:
JIANGYIN

Date/日期:
2019-03-06

Work inspector/工厂检验师:
SHI ZHIYING

