



# Jiangyin Unique Flange Manufacturing Co.,Ltd.

## Mill Certificate

EN 10204/3.1



Certified in accordance to Pressure Equipment Directive 2014/68/EU, Annex I, Paragraph 4.3 und AD 2000-W0/TRD 100 by TÜV Industries Service GmbH (Notified Body Identification No. 0035)

Customer:		Certificate No. : <b>UF181122-10</b>	
<b>STAPPERT Ceska repulika spol. s.r.o.</b>		Order No.: <b>OVO-3941/2018</b>	
		Order Dated: <b>Aug. 13-2018</b>	
Product name:	<b>Hot Forged Flange</b>		
Specification:	PED 2014/68/EU, AD 2000-W2/W9/W10/TRD100		
Material:	According to:		
<b>1.4301/07</b>	<b>EN 10222-5:2017</b>		
Melting process:	Electric furnace		
Heat treatment:	Solution annealing+ quenching in water: 1060°C/2.0hrs		
<u>Marking:</u>			
Standard, Nominal Size, Nominal Pressure, Material, Heat No.			
Mark of Manufacturer:			
Stamp of Work inspector:			

### Content of delivery

Item-no	Q'ty	Size		Heat No.	Specimen No.
13	100	DIN EN1092-1 02A PN10/16	DN65/70.0 B=10 8HOLES	180927AS08	UH36715
33	10	DIN EN1092-1 01A PN10/16/25/40	DN20/25.0 B=10	180927AS08	UH36715
34	50	DIN EN1092-1 01A PN10/16/25/40	DN20/26.9 B=10	180927AS08	UH36715
48	100	DIN EN1092-1 01A PN10/16	DN65/70.0 B=10 8HOLES	180927AS08	UH36715
79	20	DIN EN1092-1 05A PN10/16/25/40	DN20 B=10	180927AS08	UH36715

### A)chemical analysis

Heat No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Ti	Nb	N
Requirements	%	%	%	%	%	%	%	%	%	%	%	%
EN	min.											
	max.											
180927AS08	0.030	1.00	2.00	0.045	0.015	17.50	8.00	---	---	---	---	0.10
	0.015	0.445	1.33	0.036	0.0022	18.32	8.05					0.076

### B)Mechanical test

Specimen No.	Dim. Of specimen		Sampling of specimen			Test temp	Yield strength	Tensile Strength	Elongation	Necking	Hardness	Energy of impact (ISO V-specimen) Joule			
	Thickness	Width, $\phi$	Location	Direction	Position							1	2	3	$\Sigma/3$
	mm	mm				°C	Rp Mpa/ N/mm <sup>2</sup>	Rm Mpa/ N/mm <sup>2</sup>	A5 %	Z %	HB				
EN	Requirements			Tr		RT	0.2/1.0 200/230	500~700	≥ 35	/	/	≥ 60	≥ 60	≥ 60	≥ 60
UH36715		10.0		Tr		RT	240/250	570	52	67	154	283	275	292	283
UH36715						-196°C						153	149	160	154

### C)Dimensional check and NDT

Testing	Details	Results
Visual inspection	100%	OK
Dimensional check	100%	OK
PMI(Positive Material Identification) test	100% with X-ray fluorescence analyzer	OK

### D)Other Test:

Intergranular corrosion test	EN ISO 3651-2	OK
Material reuirements	NACE MR 0175/ISO 15156-3-2015 NACE MR 0103/ISO 17495-2016	OK



Place: Jiangyin

Date: 2018-11-22

Work inspector