


**Annex to Certificate No. : 01 202 CHN/Q-09 0328**

Scope according to		<input checked="" type="checkbox"/> Directive 2014/68/EU Annex I §4.3	<input type="checkbox"/> EN 764-4		<input checked="" type="checkbox"/> AD 2000-Merkblatt W0		<input type="checkbox"/> FPC, Regulation (EU) No. 305/2011(System 2+)																				
Manufacturer				Work				Nationality	Date	Page No..																	
Company Name: AOPU Alloy Industries Co., Ltd. Location: Wangjiang, Xingtian No.2 Rd, Xingning, Meizhou City, Guangdong Province, P. R. China. 514500				Same as left				China	Mar 31, 2021 Rev.: 1	1 of : 3	TÜV Rheinland Industrie Service GmbH																
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications  Requirements Technical Regulations	Remarks  															
					Thick-ness mm		DN mm		kg	res ult																	
					from 6a	Up to 6b	from 7a	Up to 7b					↓	8a	8b												
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10															
<b>1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU</b>																											
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.																											
1	1.4308, 1.4309, 1.4408, 1.4409	EN 10213	AT	Steel casting	3	50	8	200	5	30	PED 2014/68/EU																
2	1.0619	EN 10213	N or QT	Steel casting	3	50	8	200	5	30	PED 2014/68/EU																
<table border="0"> <tr> <td><b>Remarks</b></td> <td>+AT = solution annealing and water quenching</td> <td>+NT = normalized and tempered</td> <td>a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary</td> </tr> <tr> <td></td> <td>+AR = not treated</td> <td>+QT = quenched and tempered</td> <td></td> </tr> <tr> <td></td> <td>+M = thermo mechanical treated</td> <td>+S = soft annealed</td> <td></td> </tr> <tr> <td></td> <td>+N = normalized or normalizing formed</td> <td>+H = Solution annealed and age-hardened condition</td> <td></td> </tr> </table>												<b>Remarks</b>	+AT = solution annealing and water quenching	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		+AR = not treated	+QT = quenched and tempered			+M = thermo mechanical treated	+S = soft annealed			+N = normalized or normalizing formed	+H = Solution annealed and age-hardened condition	
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									Rev.: 1		of : 3		
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks	
					Thick-ness mm		DN mm		kg	↓			res ult
					from	Up to	from	Up to					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
<b>2. Materials according to the AD 2000-Code</b> The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.													
1	1.4308, 1.4408	EN 10213	AT	Steel casting	3	50	8	200	5	30	AD2000-W5		
2	1.0619	EN 10213	N or QT	Steel casting	3	50	8	200	5	30	AD2000-W5		
<b>Remarks</b> +AT = solution annealing and water quenching      +NT = normalized and tempered      a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary +AR = Not treated      +QT = quenched and tempered +M = thermo mechanical treated      +S = soft annealed +N = normalized or normalizing formed      +H = Solution annealed and age-hardened condition													




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					from	Up to	from	Up to					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
<b>3. Materials according to international standards ( e. g. ASTM, ASME, IBR etc. )</b>													
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1	CF8, CF8M, CF3, CF3M	ASME SA351	AT	Steel casting	3	50	8	200	5	30	ASME SA351	a	
2	WCB	ASME SA216	N or QT	Steel casting	3	50	8	200	5	30	ASME SA216	a	
3	CD6MN, CE3MN	ASTM A890	AT	Steel casting	3	50	8	200	5	30	ASTM A890	a	
4	CA6NM	ASTM A743	NT	Steel casting	3	50	8	200	5	30	ASTM A743	a	
<b>Results</b>													
+AT = solution annealing and water quenching			+NT = normalized and tempered			+QT = quenched and tempered			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary				
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