

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: Non Ferro Gieterij "Oldenzaal"bv Visschedijkweg 17 Location: NL - 7575 PB Oldenzaal				Oldenzaal		NL	26.03.2019	1	TÜV Rheinland Industrie Service GmbH			
							Rev.: 0	of : 3				
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ res ult	Technical Specifications Requirements Technical Regulations	Remarks	
					Thick- ness mm	∅ mm	from	Up to				from
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU												
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.												
01	Austenitic Steel castings 1.4308, 1.4309, 1.4408, 1.4409, 1.4552, 1.4581	EN 10213	AT	Castings (Sandcasting)					1	1,5	EN 13445	
02	Duplex-Steel castings 1.4517, 1.4469, 1.4470, 1.4417	EN 10213	AT	Castings (Sandcasting)					1	1,5	EN 13445	
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed			+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary				

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					Thick-ness mm		Ø mm					
					from	Up to	from	Up to				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.)												
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.												
04	Austenitic Steel castings CF3, CF8, CF3M, CF8M CF3MN, CK-3MCuN	ASTM A 351	AT	Castings (Sandcasting)					1	1,5		No. 04 to 07: Particular Material Appraisal (PMA) required acc. to Directive 2014/68/EU, Anhang I, 4.2 b: acc. to specification * Lloyd's Register of Shipping, ABS and GL
05	Duplex- Steel castings 1B/CD4MCuN, 4A/CD3MN 6A/CD3MWCuN	ASTM A 995	AT	Castings (Sandcasting)					1	1,5		
06	Copper-Aluminium Alloys	EN 1982 DIN 1705 ASTM B 148	b	Castings (Sandcasting)					1	1,5		
07	Manganese-Copper Alloys	Kundennorm*, CU4	b	Castings (Sandcasting)					1	1,5		
Results	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed			+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary					