Annex to Certificate no.: 01 2627 ZA/M1-2100010.00



Scope according to:				2014/68/EU, Annex I, point 4.3					☑ AD 2000-Merkblatt W 0						
Manufacturer			Work				Country			Date	Page no.	TÜV Rheinland Polska Sp. z o.o.			
Company name: Columbus Stainless (Pty) Ltd.			Columbus Stainless (Pty) Ltd. Hendrina Road, Middelburg				South Africa			01.09.20	21 1 of	$I \setminus I \subset I \setminus X$			
Locatio	on: Hendrina Road, Middelburg, South	Africa Trendina Roda, Middelbarg							Rev.: 0	_	10/01/2010				
Pos.	Materials-term	Material	Delivery	Article	Dime Thickness			Ø		eight nax. I	Technical specifications Requirements	Remarks			
	Materials-no.	specification	conditions	Type of Product	from	up to	from	m up to	1=t 2=kg	result	Technical regulat				
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	X2CrNiMoN22-5-3(1.4462)	EN 10028-7	AT	Plate	6.0	63.5				
02	X2CrNiN23-4(1.4362)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0				
03	X2CrNi12(1.4003)	EN 10028-7	AT	CR Coil /Sheet	0.4	6.0				
										ill Rheinland
04	X2CrTiNb18(1.4509)	EN 10028-7	AT						/	
05	X3CrTi17(1.4510)	EN 10028-7	AT	CR Coil /Sheet	0.4	6.0				
06	X2CrMoTi18-2(1.4521)	EN 10028-7	AT							
07	X6CrMoNb17-1(1.4526)	EN 10028-7	AT						\	
									\	8
										Princation Bod
										Cation

Remarks: +AT = solution annealed

+N = normalized or normalizing formed

+S = soft annealed

+AR = as rolled

+NT = normalized and tempered

+SR = stress relieved

+M = thermomechanical treated +QT = quenched and tempered

A = PMA for the use in pressure equipment in Directive 2014/68/EU necessary

Annex to Certificate no.: 01 2627 ZA/M1-2100010.00



Scope according to:				014/68/EU, Annex I, point 4.3					☑ AD 2000-Merkblatt W 0						
Manufacturer			Work				Country			Date	Page no.	ΓÜV Rheinland Polska Sp∕z⁄ρ.o.			
Company name: Columbus Stainless (Pty) Ltd.				Stainless (Pty) Ltd. Road, Middelburg			South Africa			01.09.20	21 1 of	$1.0 \leq 1.0$			
Locatio	n: Hendrina Road, Middelburg, South	Africa Hending Head, Hiddelbally							Rev.: 0	-	10/10)2010				
Pos.	Materials-term	Material	Delivery	Article	Dime Thickness		nsions			eight nax. I	Technical specifications	Remarks			
	Materials-no.	specification	conditions	Type of Product	from	m up to	from up to		2=kg	result	Technical regulati				
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10			

2. Materials according to the AD 2000 Code

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.

08	X5CrNi18-10 (1.4301)	EN 10028-7	AT	ر Plate	8.0	63.5		AD 2000 W2	
09	X2CrNi19-11(1.4306)	EN 10028-7	AT						
10	X5CrNiMo17-12-2(1.4401)	EN 10028-7	AT						
11	X2CrNiMo17-12-2(1.4404)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0		- AD 2000 W10	Rheinlang
12	X2CrNiMoN17-11-2(1.4406)	EN 10028-7	AT						
13	X6CrNiTi18-10(1.4541)	EN 10028-7	AT	CR Coil /Sheet	0.4	6.0			
14	X6CrNiMoTi17-12-2(1.4571)	EN 10028-7	ΑT						
15	X2CrNi18-9(1.4307)	EN 10028-7	AT)	8
	\(V2.6.1\(\text{V1.6.1\(\text{V2.6.1\(EN 40030 7	A.T.] 51-4-]	Princation Bod
16	X2CrNiMo17-12-3(1.4432)	EN 10028-7	AT	Plate	8.0	63.5		AD 2000 W2	Callott
17	X2CrNiMo18-14-3(1.4435)	EN 10028-7	AT						
18	X3CrNiMo17-13-3(1.4436)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0			
19	X6CrNi23-13(1.4950)	EN 10028-7	AT					AD 2000 W10	
20	X6CrNi25-20(1.4951)	EN 10028-7	AT	CR Coil /Sheet	0.4	6.0			

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Annex to Certificate no.: 01 2627 ZA/M1-2100010.00



Scope according to: Directive 2				.014/68/EU, Annex I, point 4.3					☑ AD 2000-Merkblatt W 0							
	Manufacturer	Work				Country			Date	Page no.	TÜV Rhe	einland Polska Sp. z o.o.				
Company name: Columbus Stainless (Pty) Ltd. Location: Hendrina Road, Middelburg, South Africa			Columbus Stainless (Pty) Ltd. Hendrina Road, Middelburg				South Africa			01.09.20	21 1 of					
Locatio	on: Hendrina Road, Wilddelburg, South	ATTICA TOTAL							Rev.: 0		11, 1 5 1, 8					
Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	_	Dimensions Thickness mm		ns Ø mm 1		eight nax.	Technical specification Requirement		Remarks			
	atc.i.atc.i.atc	opcomeation	from		from	up to	from	up to	2=kg ↓	result	Technical regula	tions				
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 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.

21	X2CrMnNiMoN21-5-3(1.4482)	EN 10088-2	AT						
22	301L, 301LN, 304, 304L, 316]	AT	Plate	6.0	63.5			PMA for the use in pressure
23	309S, 310S, 316L, 316LN, 316Ti		AT						equipment in Directive
24	321, 430, 436, 439, 444	ASTM A 240	AT	R Coil / Sheet	2.5	8.0			2014/68/EU
25	S32001, S31803, 2205, 2304	ASME SA 240	AT						necessary
26	409, S40975, 410S, S41003		AT	CR Coil / Sheet	0.4	6.0			Na Rhein/and
27	S43932, S43940		AT					/	
28	321H, 309H, 304H, 310H		AT	Plate	8.0	63.5			
									8/
									Prification Bod
									reation

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