Annex to Certificate no.: 01 2627 ZA/M1-210010.02

TÜVRheinland®
Precisely Right.

Scope according to:	☒ Directive 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.** Location: **Hendrina Road, Middelburg, South Africa**	**Columbus Stainless (Pty) Ltd.** **Hendrina Road, Middelburg, South Africa**	**South Africa**	03.11.2026 Rev.: 2	**1** of **3**	

Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	Dimensions Thickness mm		⌀ mm		Weight max. 1=t 2=kg ⇓	result	Technical specifications Requirements Technical regulations	Remarks
					from	up to	from	up to				
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					AD 2000 W2 AD 2000 W10	
02	X2CrNiN23-4(1.4362)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0						
03	X2CrNi12(1.4003)	EN 10028-7	A	CR Coil / Sheet	0.4	6.0						
04	X2CrTiNb18(1.4509)	EN 10028-7	A									
05	X3CrTi17(1.4510)	EN 10028-7	A	CR Coil / Sheet	0.4	6.0						
06	X2CrMoTi18–2(1.4521)	EN 10028-7	A									
07	X6CrMoNb17–1(1.4526)	EN 10028-7	A									

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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

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Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	Dimensions Thickness mm		⌀ mm		Weight max. 1=t 2=kg ⇓	result	Technical specifications Requirements Technical regulations	Remarks
					from	up to	from	up to				
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									
09	X2CrNi19-11(1.4306)	EN 10028-7	AT									
10	X5CrNiMo17-12-2(1.4401)	EN 10028-7	AT	Plate	6.0	63.5						
11	X2CrNiMo17-12-2(1.4404)	EN 10028-7	AT								AD 2000 W2	
12	X2CrNiMoN17-11-2(1.4406)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0					AD 2000 W10	
13	X6CrNiMoTi17-12-2(1.4571)	EN 10028-7	AT	CR Coil / Sheet	0.4	6.0						
14	X2CrNi18-9(1.4307)	EN 10028-7	AT									
15	X6CrNiTi18-10(1.4541)	EN 10028-7	AT									
16	X2CrNiMo17-12-3(1.4432)	EN 10028-7	AT									
17	X2CrNiMo18-14-3(1.4435)	EN 10028-7	AT									
18	X3CrNiMo17-13-3(1.4436)	EN 10028-7	AT	Plate	8.0	63.5					AD 2000 W2	
19	X6CrNi23-13(1.4950)	EN 10028-7	AT	HR Coil / Sheet	2.5	8.0					AD 2000 W10	
20	X6CrNi25-20(1.4951	EN 10028-7	AT	CR Coil /Sheet	0.4	6.0						
21	X2CrMnNiMoN21–5-3(1.4482)	EN 10088-2	AT									

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Pos.	Materials-term Materials-no.	Material specification	Delivery conditions	Article Type of Product	Dimensions Thickness mm from	Thickness mm up to	⌀ mm from	⌀ mm up to	Weight max. 1=t 2=kg ⇓	Weight max. result	Technical specifications Requirements Technical regulations	Remarks
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.

22	301L, 301LN, 304, 304L, 316, 321	ASTM A 240 ASME SA 240	AT	Plate HR Coil / Sheet CR Coil / Sheet	2.5	63.5						PMA for the use in pressure equipment in Directive 2014/68/EU necessary
23	309S, 310S, 316L, 316LN, 316Ti		AT		6.0							
24	430, 436, 439, 444		A		0.4	8.0						
25	S32001, S31803, 2205, 2304		AT			6.0						
26	409, S40975, 410S, S41003		A									
27	S43932, S43940		A									
28	321H, 309H, 304H, 310H	ASTM A 240 ASME SA 240	AT	Plate	8.0	63.5						

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