


CUSTOMER <small>KUNDE</small> ALUMECO FINLAND OY AB Kaviokuja 5	OUR ORDER N° <small>UNSERE AUFTR</small> MA 3213	YOUR ORDER N° <small>IHRE BESTELL</small> 120584889
TRADE MARK <small>STEMPEL DES HERSTELL</small>		INSPECTOR'S STAMP <small>STEMPEL DES WERKSACHVERSTÄNDIGEN</small>
		STEELMAKING PROCESS <small>HERSTELLUNGSPROZESS</small> A.O.D.

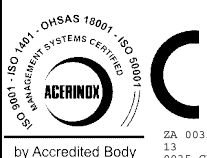

REQUIREMENTS <small>ANFORDERUNGEN</small>	INTERGRANULAR CORROSION <small>INTERKRISTALLINE KORROSION</small>	GRADE <small>WERKSTOFF</small>	FINISH <small>AUSFÜHRUNG</small>
EN 10088-2 : 2014 ASTM A240 / A240M Ed 20A / ASME BPVC IIA SA240 / SA240M Ed 2021	ASTM A262 Practice E	Acx 151 1.4301/1.4307 Acx 151 304/304L	2B 2B

COIL / BOX <small>COIL/KISTE</small>	CONTENT <small>INHALT</small>	DIMENSIONS (mm) <small>ABMESSUNGEN</small>			MARKS <small>POS.</small>	QUANTITY <small>STÜCKZAHL</small>	TEST N° <small>PROBE NR.</small>	
		THICKNESS <small>DICK</small>	WIDTH <small>BREITE</small>	LENGTH <small>LÄNGE</small>				
QPAS02 2788	4354511 E02A03	5,000	1500,00	3000,00	14	6	4354511 E02A03	C / F
QPAS02 2789	4354511 E02A02	5,000	1500,00	3000,00	12	7	4354511 E02A02	C / F
QPAS02 2790	4354511 E02A01	5,000	1500,00	3000,00	13	7	4354511 E02A01	C / F
QPAS02 2794	4354511 E01A01	5,000	1500,00	3000,00	16	7	4354511 E01A01	C / F
QPAS02 2796	4354511 E01A02	5,000	1500,00	3000,00	15	6	4354511 E01A02	C / F
QPAS02 2797	4354511 E01A03	5,000	1500,00	3000,00	17	3	4354511 E01A03	C / F

CHEMICAL ANALYSIS / CHEMISCH ZUSAMMENSETZUN											
HEAT N° <small>SCHMELZE NR</small>	C	CR	MN	N	NI	P	S	SI			
435451	0,026	18,100	1,200	0,070	8,100	0,028	0,003	0,410			

MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN											
TEST N° <small>PROBE NR.</small>	PROBE TYPE	Rm. MPa	Rp 0.2 MPa	Rp 1.0 MPa	A50 %	A5 %	HRB HRBW				
4354511 E01A01	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E01A01	F						82,00				
4354511 E01A02	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E01A02	F						82,00				
4354511 E01A03	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E01A03	F						82,00				
4354511 E02A01	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E02A01	F						82,00				
4354511 E02A02	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E02A02	F						82,00				
4354511 E02A03	C	650,00	311,00	346,00	50,00	54,00	87,00				
4354511 E02A03	F						82,00				

REMARKS / BEOBACHTUNGEN The delivery is in accordance to the order Heat Treatment temperature = 1050 - 1100 °C Cooling with air/water spray This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2020 & NACE MR0103 / ISO 17945 : 2015 Certified to Pressure Equipment Directive 2014/68/EU By TÜV Rheinland: Cert. no. 01 2627 ZA/M1-2100010.00	SURFACE AND DIMENSIONAL CONTROL <small>OBERFLÄCHEN- UND ABMESSUNGSKONTROLLE</small> <p style="text-align: center; font-weight: bold;">SATISFACTORY OHNE BEANSTANDUNG</p> <hr/> WORK INSPECTOR <small>WERKSACHVERSTÄNDIGER</small> <div style="text-align: center;">  Q. Snyman </div>
Middelburg, 1 Julio 2022	

COLUMBUS STAINLESS (Pty) Ltd Subsidiary of ACERINOX, S.A. SMB: +27 13 247 9111 FAX: +27 13 246 1681 http://www.columbus.co.za PO BOX 133 MIDDELBURG 1050 MPUMALANGA SOUTH AFRICA	 by Accredited Body ZA 0035 13 0035-CPR-A304	 Authorised Representative EC REP Acerinox Europa, S.A.U. C/Santiago de Compostela nº100 28035 Madrid (Spain) Tel: 9139851 00/9139851	<h1 style="margin:0;">INSPECTION CERTIFICATE</h1> <h2 style="margin:0;">ABNAHMEPRÜFZEUGNIS</h2> <p style="text-align: right; margin:0;">3.1</p> <p style="margin:0;">ACCORDING TO EN 10204 CERTIFICATE N° 73 2022 1255 10001 Y GEMÄSS ZEUGNIS NR.</p>
---	--	--	--


CUSTOMER KUNDE ALUMECO FINLAND OY AB Kaviokuja 5	OUR ORDER N° UNSERE AUFTR <p style="text-align: center; font-weight: bold; font-size: 1.2em;">MA 3213</p>	YOUR ORDER N° IHRE BESTELL <p style="text-align: right; font-weight: bold; font-size: 1.2em;">120584889</p>
TRADE MARK STEMPSEL DES HERSTELL		INSPECTOR'S STAMP STEMPSEL DES WERKSSACHVERSTÄNDIGEN
		STEELMAKING PROCESS HERSTELLUNGSPROZESS <p style="text-align: right;">A.O.D.</p>




REQUIREMENTS ANFORDERUNGEN	INTERGRANULAR CORROSION INTERKRISTALLINE KORROSION	GRADE WERKSTOFF	FINISH AUSFÜHRUNG
EN 10088-4 : 2009		Acx 151	1.4301/1.4307 2B

COIL / BOX COIL/KISTE	CONTENT INHALT	DIMENSIONS (mm) ABMESSUNGEN			MARKS POS.	QUANTITY STÜCKZAHL	TEST N° PROBE NR.
		THICKNESS DICK	WIDTH BREITE	LENGTH LÄNGE			
QPAS02 2788	4354511 E02A03	5,000	1500,00	3000,00	14	6	4354511 E02A03 C / F
QPAS02 2789	4354511 E02A02	5,000	1500,00	3000,00	12	7	4354511 E02A02 C / F
QPAS02 2790	4354511 E02A01	5,000	1500,00	3000,00	13	7	4354511 E02A01 C / F
QPAS02 2794	4354511 E01A01	5,000	1500,00	3000,00	16	7	4354511 E01A01 C / F
QPAS02 2796	4354511 E01A02	5,000	1500,00	3000,00	15	6	4354511 E01A02 C / F
QPAS02 2797	4354511 E01A03	5,000	1500,00	3000,00	17	3	4354511 E01A03 C / F

CHEMICAL ANALYSIS / CHEMISCH ZUSAMMENSETZUN										
HEAT N° SCHMELZE NR	C	CR	MN	N	NI	P	S	SI		
REQUIREMENTS ANFORDERUNGEN	0,030	17,500 19,500	2,000	0,100	8,000 10,500	0,045	0,015	1,000		
435451	0,026	18,100	1,200	0,070	8,100	0,028	0,003	0,410		

MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN										
TEST N° PROBE NR.	PROBE SIT TYPE	Rm. MPa	Rp 0.2 MPa	Rp 1.0 MPa	A50 %	A5 %	HRB HRBW			
REQUIREMENTS ANFORDERUNGEN		540,00 700,00	230,00	260,00	40,00	45,00	92,00			
4354511 E01A01	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E01A01	F	650,00	311,00	346,00	50,00	54,00	82,00			
4354511 E01A02	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E01A02	F	650,00	311,00	346,00	50,00	54,00	82,00			
4354511 E01A03	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E01A03	F	650,00	311,00	346,00	50,00	54,00	82,00			
4354511 E02A01	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E02A01	F	650,00	311,00	346,00	50,00	54,00	82,00			
4354511 E02A02	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E02A02	F	650,00	311,00	346,00	50,00	54,00	82,00			
4354511 E02A03	C	650,00	311,00	346,00	50,00	54,00	87,00			
4354511 E02A03	F	650,00	311,00	346,00	50,00	54,00	82,00			

REMARKS / BEOBACHTUNGEN The delivery is in accordance to the order Heat Treatment temperature = 1050 - 1100 °C Cooling with air/water spray This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2020 & NACE MR0103 / ISO 17945 : 2015 Certified to Pressure Equipment Directive 2014/68/EU By TÜV Rheinland: Cert. no. 01 2627 ZA/M1-2100010.00	SURFACE AND DIMENSIONAL CONTROL OBERFLÄCHEN- UND ABMESSUNGSKONTROLLE <p style="text-align: center; font-weight: bold; font-size: 1.2em;">SATISFACTORY</p> Ohne Beanstandung
WORK INSPECTOR WERKSSACHVERSTÄNDIGER <div style="text-align: center; margin-top: 20px;">  </div>	
Middelburg, 1 Julio 2022	

COLUMBUS STAINLESS (Pty) Ltd Subsidiary of ACERINOX, S.A. SNB: +27 13 247 9111 FAX: +27 13 246 1681 http://www.columbus.co.za PO BOX 133 MIDDELBURG 1050 MPUMALANGA SOUTH AFRICA	 by Accredited Body	<h1 style="margin:0;">INSPECTION CERTIFICATE</h1> <h2 style="margin:0;">ABNAHMEPRÜFZEUGNIS</h2>	3.1 CERTIFICATE N° ZEUGNIS NR.																
CUSTOMER KUNDE ALUMECO FINLAND OY AB Kaviokuja 5		OUR ORDER N° UNSERE AUFTR MA 3213	YOUR ORDER N° IHRE BESTELL 120584889																
		TRADE MARK STEMPSEL DES HERSTELL 	INSPECTOR'S STAMP STEMPSEL DES WERKSACHVERSTÄNDIGEN																
		STEELMAKING PROCESS HERSTELLUNGSPROZESS A.O.D.																	
REQUIREMENTS ANFORDERUNGEN EN 10028-7 : 2016 / AD W0 / TRD 100 / AD2000 W2/W10 / PED 2014/68/EU		INTERGRANULAR CORROSION INTERKRISTALLINE KORROSION	GRADE WERKSTOFF Acx 151 1.4301/1.4307																
		FINISH AUSFÜHRUNG 2B																	
COIL / BOX	CONTENT	DIMENSIONS (mm)			MARKS	QUANTITY	TEST N°												
COIL/KISTE	INHALT	THICKNESS	WIDTH	LENGTH	POS.	STÜCKZAHL	PROBE NR.												
		DICKE	BREITE	LÄNGE															
QPAS02 2788	4354511 E02A03	5,000	1500,00	3000,00	14	6	4354511 E02A03	C / F											
QPAS02 2789	4354511 E02A02	5,000	1500,00	3000,00	12	7	4354511 E02A02	C / F											
QPAS02 2790	4354511 E02A01	5,000	1500,00	3000,00	13	7	4354511 E02A01	C / F											
QPAS02 2794	4354511 E01A01	5,000	1500,00	3000,00	16	7	4354511 E01A01	C / F											
QPAS02 2796	4354511 E01A02	5,000	1500,00	3000,00	15	6	4354511 E01A02	C / F											
QPAS02 2797	4354511 E01A03	5,000	1500,00	3000,00	17	3	4354511 E01A03	C / F											
CHEMICAL ANALYSIS / CHEMISCH ZUSAMMENSETZUN																			
HEAT N°	SCHMELZE NR	C	CR	MN	N	NI	P	S	SI										
REQUIREMENTS	ANFORDERUNGEN																		
	435451	0,030	17,500 19,500	2,000	0,100	8,000 10,500	0,045	0,015	1,000										
		0,026	18,100	1,200	0,070	8,100	0,028	0,003	0,410										
MECHANICAL PROPERTIES / MECHANISCHE EIGENSCHAFTEN																			
TEST N°	PROBE NR.	Rm	Rp 0.2	Rp 1.0	A50	A5	HRB												
PROBE TYPE	SIT	MPa	MPa	MPa	%	%	HRBW												
REQUIREMENTS	ANFORDERUNGEN																		
		540,00 700,00	230,00	260,00	40,00	45,00	92,00												
4354511 E01A01	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E01A01	F T						82,00												
4354511 E01A02	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E01A02	F T						82,00												
4354511 E01A03	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E01A03	F T						82,00												
4354511 E02A01	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E02A01	F T						82,00												
4354511 E02A02	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E02A02	F T						82,00												
4354511 E02A03	C T	650,00	311,00	346,00	50,00	54,00	87,00												
4354511 E02A03	F T						82,00												
REMARKS / BEOBACHTUNGEN										SURFACE AND DIMENSIONAL CONTROL									
The delivery is in accordance to the order Heat Treatment temperature = 1050 - 1100 °C Cooling with air/water spray This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2020 & NACE MR0103 / ISO 17945 : 2015 Certified to Pressure Equipment Directive 2014/68/EU By TÜV Rheinland: Cert. no. 01 2627 ZA/M1-2100010.00										SATISFACTORY OHNE BEANSTANDUNG									
										WORK INSPECTOR WERKSACHVERSTÄNDIGER									
										 Q. Snyman									
										Middelburg, 1 Julio 2022									