

**COLUMBUS
STAINLESS**
(Pty) Ltd

Subsidiary of
ACERINOX, S.A.

SWB: +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

Abnahmeprüfzeugnis INSPECTION CERTIFICATE

ACCORDING TO **EN 10204 3.1**
NACH

Prüf - Nr. **73 2017 97853 20001 E**
Inspection No.

"Zustimmungsschreiben des TÜV Baden vom 21. Februar 1983"

Letter of approval from the TÜV Baden dated 21-2-83

"Laut Schreiben des TÜV Baden e. v. vom 26 Juni 1.989 wird auf die Gegenzeichnung verzichtet."
TÜV Baden renounce to the countersignature according their letter dated 26-6-89

Besteller - Customer Damstahl OY	Auftrags Nr - Our order n° SW 3946	Bestellung Nr - Your order n° 204622 Christer G.
Prüfgegenstand - Article BLECH AUS BAND (SHEET)	Werkstoff Nr und Lieferzustand - Material n° and Condition of Delivery 1.4401/1.4404 2B	
Werkstoff - Normbez Standard - Grade of Material X5CrNiMo 17-12-2/X2CrNiMo 17-12-2	Werksbez - Works Grade Acx - 240	Erschmelzungsart - Steelmaking Process A=AOD Verfahren - AOD Process A
Anforderungen - Technical requirements EN 10028-7/AD W0/TRD 100/AD2000 W2/W10/PED 2014/68/EU		Kennzeichnung - Marking Schmelznummer - N° of coil

Zeichen des Lieferwerks - Brand of the manufacturer 	Stempel des Sachverständigen - Inspector's stamp
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Pos Nr. Item N°	Stückzahl Quantity	Abmessung - Dimensions mm	Schmelze Nr Heat N°	Probe Nr Test N°
3	4	6,000 x 1.500,00 x 3.000,00	408089	4080891 B01A01 C / F

Chemische Analyse - Chemical Composition (%)											
Schmelze Nr Heat N°	C	CR	MN	MO	N	NI	P	S	SI		
Anforderungen Requirements	0,030	16,500 18,000	2,000	2,000 2,500	0,100	10,000 13,000	0,045	0,015	0,750		
408089	0,025	16,600	1,270	2,000	0,040	10,000	0,025	0,001	0,510		




Mechanische Eigenschaften - Mechanical Properties Pr. Temp./T. Temp. 20° C											
Probe Nr Test N°	Prob.-Lage Pos of Test	Abmessungen des Probestabs Dim. of specimen	Rm. MPa	Rp 0.2 MPa	Rp 1.0 MPa	A50 %	A5 %	HRB HRBW	A262-E	IS3651-2	
Anforderungen Requirements		Breite x Dicke Width x Thickness mm	530,00 680,00	240,00	270,00	40,00	40,00	95,00			
4080891 B01A01 4080891 B01A01	CT FT	20,000 6,00 20,000 6,00	613,00	330,00	369,00	55,00	56,00	84,00 84,00			




Besichtigung und Masskontrolle wurden durchgeführt: O.B. Surface and dimensions controlled: O.K.
Der Werkstoff ist beständig gegen interkristalline Korrosion gemäss
The material is resistant to intergranular corrosion test according to
Spektroskopische Identitätsprüfung: O.B. Spectrometrical Identity test: O.K.
Wärmebehandlung: Glühen bei 1050 - 1100 °C
Heat treatment:
Und Abschrecken mit Luft. cooling with air.
Die Lieferung entspricht der Bestellung. The delivery is in accordance with the order
Issued in agreement with TÜV SÜD Industrie Service GmbH (02/1983)

WERKSACHVERSTÄNDIGER
WORK INSPECTOR

Zeugnis ist per EDV erstellt und ohne
Unterschrift gültig gemäss E-Norm 10204

Middelburg, 18 2017

COLUMBUS STAINLESS (Pty) Ltd Subsidiary of ACERINOX, S.A. SWB: +27 13 247 9111 FAX: +27 13 246 1681 http://www.columbus.co.za PO BOX 133 MIDDELBURG 1050 MUMULANGA SOUTH AFRICA		 by Accredited Body		 0769-CPR-VAS-00530 DoP no. 1/2015		3.1 ACCORDING TO EN 10204 SEGUN		CERTIFICATE N° 73 2017 97853 20001 Y CERTIFICADO N°												
CUSTOMER CLIENTE Damstahi OY LAAJAM#NTIE 1 FI-13430 H#MEENLINNA FINLAND				OUR ORDER N° N/PEDIDO SW 3946		YOUR ORDER N° S/PEDIDO 204622 Christer G.														
				TRADE MARK SELLO DEL FABRICANTE		INSPECTOR'S STAMP SELLO DEL INSPECTOR		STEELMAKING PROCESS PROCESO DE ACERIA A.O.D.												
REQUIREMENTS NORMAS APLICABLES EN 10088-4				INTERGRANULAR CORROSION CORROSION INTERGRANULAR		GRADE MATERIAL Acx 240 1.4401/1.4404		FINISH ACABADO 2B												
COIL / BOX BOBINA/CAJA		CONTENT CONTENIDO		DIMENSIONS (mm) DIMENSIONES			MARKS MARCA	QUANTITY CANTIDAD	TEST N° PROBETA											
KPAS38 660		4080891 B01A01		THICKNESS ESPESOR	WIDTH ANCHO	LENGTH LARGO	3	4	4080891 B01A01 C / F											
CHEMICAL ANALYSIS / COMPOSICION QUIMICA (%)																				
HEAT N° COLADA		C	CR	MN	MO	N	NI	P	S	SI										
REQUIREMENTS REQUISITOS		0,030	16,500 18,000	2,000	2,000 2,500	0,100	10,000 13,000	0,045	0,015	0,750										
408089		0,025	16,600	1,270	2,000	0,040	10,000	0,025	0,001	0,510										
MECHANICAL PROPERTIES / CARACTERISTICAS MECANICAS																				
TEST N° PROBETA		PROBE SITE	Rm. MPa	Rp 0.2 MPa	Rp 1.0 MPa	A50 %	A5 %	HRB HRBW	A262-E	IS3651-2										
REQUIREMENTS REQUISITOS			530,00 680,00	240,00	270,00	40,00	40,00	95,00												
4080891 B01A01		C	613,00	330,00	369,00	55,00	56,00	84,00												
4080891 B01A01		F						84,00												
REMARKS / OBSERVACIONES										SURFACE AND DIMENSIONAL CONTROL INSPECCION SUPERFICIAL Y DIMENSIONAL										
This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015										SATISFACTORY Satisfactoria										
										WORK INSPECTOR INSPECTOR										
																				
										Middelburg, 18 2017										

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ACCORDING TO EN 10204 <small>SEGUN</small>		CERTIFICATE N° 73 2017 97853 20002 * <small>CERTIFICADO N°</small>															
CUSTOMER <small>CLIENTE</small> Damstahl OY LAAJAM#NTIE 1 FI-13430 H#MEENLINNA FINLAND		OUR ORDER N° <small>N/PEDIDO</small> SW 3946	YOUR ORDER N° <small>S/PEDIDO</small> 204622 Christer G.														
		TRADE MARK <small>SELLO DEL FABRICANTE</small> 	INSPECTOR'S STAMP <small>SELLO DEL INSPECTOR</small>														
		STEELMAKING PROCESS <small>PROCESO DE ACERIA</small> A.O.D.															
REQUIREMENTS <small>NORMAS APLICABLES</small> EN 10088-2 ASTM A240 / A240M/BPVC IIA ASME SA240/SA240M		INTERGRANULAR CORROSION <small>CORROSION INTERGRANULAR</small>	GRADE <small>MATERIAL</small> Acx 240 1.4401/1.4404 Acx 240 316/316L														
		FINISH <small>ACABADO</small> 2B 2B															
COIL / BOX <small>BOBINA/CAJA</small>	CONTENT <small>CONTENIDO</small>	DIMENSIONS (mm) <small>DIMENSIONES</small>			MARKS <small>MARCA</small>	QUANTITY <small>CANTIDAD</small>	TEST N° <small>PROBETA</small>										
		THICKNESS <small>ESPESOR</small>	WIDTH <small>ANCHO</small>	LENGTH <small>LARGO</small>													
KPAS38 660	4080891 B01A01	6,000	1500,00	3000,00	3	4	4080891 B01A01 C / F										
CHEMICAL ANALYSIS / COMPOSITION CHIMIQUE (%)																	
HEAT N° <small>SCHMELZE Nr.</small>	C	CR	MN	MO	N	NI	P	S	SI								
408089	0,025	16,600	1,270	2,000	0,040	10,000	0,025	0,001	0,510								
MECHANICAL PROPERTIES / CARACTERISTIQUES MECANIKUES																	
TEST N° <small>ECHANTILLON</small>	PROBE <small>SIT TYPE</small>	Rm. MPa	Rp 0.2 MPa	Rp 1.0 MPa	A50 %	A5 %	HRB HRBW	A262-E	IS3651-2								
4080891 B01A01 4080891 B01A01	C T F T	613,00	330,00	369,00	55,00	56,00	84,00 84,00										
REMARKS / OBSERVACIONES									SURFACE AND DIMENSIONAL CONTROL <small>INSPECTION DIMENSIONELLE ET VISUELLE</small>								
This material meets the Hardness requirement of NACE MR0175 / ISO 15156-3 : 2015 & NACE MR0103 / ISO 17945 : 2015									SATISFACTORY Ohne Beanstandung								
									WORK INSPECTOR <small>WERKSACHVERSTÄNDIGER</small> 								
									Middelburg, 18 2017								