

CD25640 A

C153015

10/3



CARRS STAINLESS STEELS

A Division of ELG Haniel Metals Ltd.

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Date: 5/3/2016 To: ASA ALLOYS (EDMONTON) SO#: S088570 Ln#: 1 PO#: P038231 Part: 11413005 Qty: 2466

Inspection Certificate: Abnahmeprüfzeugnis: Certificat de reception:		DIN 50049 3.1 EN 10204	Cert No: Zeugnis Nr: Cert No:	145649	Date: Datum: Date:	15/03/16
Customer Order No: Kundebestellnummer: No. de Commande Client:		P04220	Product Description - Beschreibung des Erzeugnisses - Description du Produit: 13.125In Dia. x 11000 lbs Electric Melt & Vacuum Degassed Stainless Steel 3896 LB 1767 Kgs.			
Our Order No: Unsere Auftr.-Nr: notre Comm. No:		65171	Solution Annealed Forged SS1 REV 5 316/316L/F316/F316L ASTM A276-13a, A479-14, A182-14b, A484-14a, A193-14 B8M CL1 ASME SA182, ASME SA479, ASME SA193 B8M CL1, SAE AMS-QQ-S-763B AMS 5653, AMS 5648, NACE MR0175, ISO 15156-3, NACE MR0103			
		W148431/00				

Chemical Analysis - Chemische Analyse - Analyse Chimique													
Cast No Schmelznummer No. de Cotelee	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N	Co		
CD25640 A	.013	.41	1.39	.040	.025	16.92	2.10	10.29	.38	.054	.20		

Heat Treatment - Wärmebehandlung - Traitement Thermique: Solution annealed @ 1940 F for 4 hours & Water Quenched

Mechanical Properties - Mechanische Eigenschaften - Caracteristiques Mechanique									
Test No Probe Nr No. d'Essai	Test dimension Probeabmessung Dimension	Proof Stress Streckgrenze Limite d'Elasticite	Rp	Tensile strength Zugfestigkeit Resistance a la traction	Elong % Bruchdehnung % Allongement %	Red of Area % Bruchanschnürung % Striction %	Impact Kerbschlagzähigkeit Resilience	Hardness Härte Durete	
		0.2%	1.0%		Lo.5D 4D				
MR4636	13.125" L	283 MPa	333 MPa	581 MPa	52.5 % 55 %	75 %		131 HB	1

Remarks - Bemerkungen - Remarques

Ultrasonically tested to ASTM A388 and found satisfactory
 Intercrystalline corrosion test to ASTM A262E satisfactory
 Intercrystalline corrosion test to ASTM A262A satisfactory
 Grain size to ASTM E112 - 3
 Microstructure and macrostructure see attached sheet.
 No welding performed
 No contact with Mercury or radioactive elements
 Nominal Size = 13"dia
 Material produced by ELG Carrs Stainless Steels in the United Kingdom
 Hot Working Reduction - 4.8:1

The material detailed has been manufactured and tested in accordance with the Quality Assurance system ISO 9001:2008 and the requirements of the specification/ order.

Signed:
 Chris Ryall - Quality Manager



Approved signatory for
 ELG Carrs Stainless Steels