

CD24157B - 17.125

C114684



CARRS STAINLESS STEELS

A Division of ELG Haniel Metals Ltd.
Wadsley Bridge, Sheffield, S6 1LL, England

Telephone: 0114 285 5666
Fax No.: 0114 285 4662
Website: <http://www.elgcarss.co.uk>
e-mail: info@elgcarss.co.uk

Purchaser - Besteller - Acheteur	Inspection Certificate: Abnahmeprüfzeugnis: Certificat de reception:	DIN 50049 3.1 EN 10204	Cart No: Zeugnis Nr: Cart N°:	130198	Date: Datum: Date:	09/06/14
	Customer Order No: Kundenbestellnummer: No. de Commande Client:	P03142	Product Description - Beschreibung des Erzeugnisses - Description du Produit: 17.125in Dia. x 8800lbs Electric Melt & Vacuum Degassed Stainless Steel 8536 LB 3872 Kgs.			
	Our Order No: Unsere Auftr.-Nr: n°re Comm. No:	52364 W143030/00	Solution Annealed Forged SS1 REV 5 316/316L/F316/F316L ASTM A276, A479, A182/SA182, A484, ASME SA479, SA193/A193 B5M CL1 SAE AMS-QQ-S-783B, AMS 5653, AMS 5646, NACE MR0175, NACE MR 0103			

Chemical Analysis - Chemische Analyse - Analyse Chimique

Cart No. Schmelzanalyse-Nr. No. de Cotation	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N	Co										
CD24157 B	.029	.31	1.29	.039	.022	16.8	2.05	10.35	.35	.051	.20										

Heat Treatment - Wärmebehandlung - Traitement Thermique: Solution annealed @ 1940 F for 5 hours 30 minutes & Water Quenched

Mechanical Properties - Mechanische Eigenschaften - Caractéristiques Mécaniques

Test No. Probe Nr. No. d'Essai	Test dimension Probabmessung Dimension	Proof Stress Streckgrenze Limite d'Elasticite 0.2%	Rp 1.0%	Tensile strength Zugfestigkeit Resistance a la traction	Elong % Bruchdehnung % Allongement % Lp 50 - 40	Red of Area % Bruchdehnung % Striction %	Impact Kerbschlagzähigkeit Resilience	Hardness Harta Durete
273156	17.125" L	250 MPa	281 MPa	530 MPa	69 %	70 %	75 %	132 HB

Remarks - Bemerkungen - Remarques

Ultrasonically tested to ASTM A388 and found satisfactory
Inter-crystalline corrosion test to ASTM A292:E satisfactory
Inter-crystalline corrosion test to ASTM A262:A satisfactory
Grain size to ASTM E112 - 2
Microstructure and macrostructure see attached sheet.
No welding performed
No contact with Mercury or radioactive elements
Nominal Size = 17"dia
Material produced by ELG Carrs Stainless Steels in the United Kingdom
Hot Working Reduction - 3.73:1

16/11/14

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 Kyall - Quality Manager

Approved signatory for
ELG Carrs Stainless Steels