

CD24056 B (9")

C108882



CARRS STAINLESS STEELS

A Division of ELG Haniel Metals Ltd.
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Purchaser - Besteller - Acheteur ASA Alloys Div of CSM ULC 20 Challenger Crescent Sherwood Park Alberta T8H 2R1 Canada	Inspection Certificate: Abnahmeprüfzeugnis: Certificat de réception:	DIN 50049 3.1 EN 10204	Cert No: Zeugnis Nr: Cert No:	139199	Date: Datum: Date:	08/07/14
	Customer Order No: Kundenbestellnummer: No. de Commande Client:	P032403	Product Description - Beschreibung des Erzeugnisses - Description du Produit: 9in Dia. x 13200 lbs Electric Melt & Vacuum Degassed Stainless Steel Solution Annealed Forged 316/316L NACE MR01-75 MS2 SPEC			
	Our Order No: Unsere Auftr.-Nr: notre Comm. No:	52363 W143023/00	7516 LB 3409 Kgs.			

Chemical Analysis - Chemische Analyse - Analyse Chimique													
Cast No. Schmelznummer No. de Cotelee	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N		
CD24056 B	.009	.39	1.28	.033	.011	16.72	2.08	10.11	.37	.19	.043		

Heat Treatment - Wärmebehandlung - Traitement Thermique	Solution annealed @ 1080 C for 4hrs and water quenched
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Mechanical Properties - Mechanische Eigenschaften - Caracteristiques Mechanique								
Test No. Probe No. 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 % A Bruchdehnung % Allongement % Lo 5D 4D	Red of Area % Z Bruchseinschnürung % Striction %	Impact Kerbschlagzähigkeit Resilience	Hardness Härte Durete
MN2820A	9"	33.5 ksi		75 ksi	60.5 %	80 %		141 HB

Remarks - Bemerkungen - Remarques Ultrasonically tested to ASTM A388 and found satisfactory Intercrystalline corrosion test to ASTM A262:E satisfactory Grain size to ASTM E112 - Avg 0 Material produced by ELG Carrs Stainless Steels in the United Kingdom

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: *C Ryall*

Chris Ryall - Quality Manager

Approved signatory for
ELG Carrs Stainless Steels

