

CD24074 (9")

C108887



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:	139256	Date: Datum: Date:	11/07/14
	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 ASA 4404/316L EN 10088-3:5 ASTM A182-09a, A276-08a, A479-10 F316/F316L 316/316L ASME SA182-LE, SA276-LE, SA479-LE F316/F316L 316/316L NACE MR0175-09/ISO 15156	3360 LB 1524 Kgs.		
Our Order No: Unsere Auftr-Nr: notre Comm. No:	52363 W143023/01					

Chemical Analysis - Chemische Analyse - Analyse Chimique													
Cast No Schmelznummer No. de Coulee	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N		
CD24074	.012	.45	1.19	.037	.010	16.75	2.12	10.17	.42	.21	.047		

Heat Treatment - Wärmebehandlung - Traitement Thermique: Solution annealed @ 1060 C for 3 hours & Water Quenched

Mechanical Properties - Mechanische Eigenschaften - Caracteristiques Mechaniques									
Test No Probe Nr No. d'Essai	Test Dimension Probadmessung Dimension	Proof Stress Streckgrenze Unités d'Elasticité 0.2%	Rp 1.0%	Tensile strength Zugfestigkeit Resistance à la traction	Rm	Elong % A Bruchdehnung % Allongement % Lo SD 4D	Red of Area % Z Bruchminderung % Striction %	Impact Kerbschlagzähigkeit Resilience	Hardness Harte Dureté
MN3479		36.8 ksi		75 ksi		67.5 %	81 %		141 HB

Remarks - Bemerkungen - Remarques
 Ultrasonically tested and found satisfactory
 Inter-crystalline corrosion test to ASTM A262:E satisfactory
 Grain size to ASTM E112 - 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

