

Customer Address
 Technoworx INC
 4788 - 50 Ave SE
 Calgary
 Alberta
 Canada
 T2B 3RA



Beeley Wood Works, Beeley Wood Lane
 Sheffield S6 1ND

Tel: - 0114 2312271 Fax: - 0114 2324983

CERTIFICATE OF ANALYSIS AND TEST

70954-1	70954/1	328	22 September 2014
Cert No.	Abbey Order No.	Customer Order No.	Date

Material	Cast No.	Min	RESULT	Max	MILL	CD24085A	Melt Method			ELEC+VDG	Min	RESULT	Max
							CARRS	Max	Min				
ASTM A182-14 F316/316L & IN ACCORDANCE WITH EN 10222-5 table 1 Werkstoff 1.4401/1.4404 TO CUSTOMER ORDER CONFORMS TO NACE MR0175/ISO 15156	C	.025	1.13	.035	.010	.42	10.21	16.94	2.07	.056			
	Mn												
	P												
	S												
	SI												
	NI												
	Cr												
	Mo												
	N												

Heat Treatment / Testing		Solution annealed at 1100°C, held for 4 hours & water quenched.															
Certified in Accordance With BS EN 10204.3.1		RESULTS		%													
IMPACTS (Joules)		HARDNESS		R OF A		ELONG.		TENSILE		0.2% PROOF STRESS		Mpa		Specification		% T Longitudinal	
TESTED AT -196°C		HBW		%		%		Mpa		205		515		209		530	
SIN 60J MIN		-		50		30		515		205		515		209		530	
Lateral Expansion		140		68		63.3		530		209		530		209		530	
N/A		140		68		63.3		530		209		530		209		530	

Additional Testing / Information	
Representing	1 off - 31.5" Ø x 5" ID x 4.106" LONG - supplied as 31.75" Ø x 4.75" ID x 4.375" LONG
Proof machined to finish	

This material is supplied within the scope of our approval to BS EN ISO 9001: 2008

For and on behalf of Abbey Forged Products Ltd

Signed _____
 Authorised Signature

CD24085A