

TEST REPORT

MTL Report No.	J66111/1	Order No.	611047	Date Tested	18/06/2024
Client Name	Spiraweld Stainless LTD			Attention	Campbell Batts
Client Email	campbell@spiraweld.co.nz				
Test Method	AS 2205.2.1: 2003	Acceptance Criteria	Report findings		



Sample Description

Joint Type	Pipe Butt-Weld				
Material	Not Supplied		Material Thickness (mm)	1) 3 2) 4	
Marking	1) 8" 3mm H# AWE031-ADB 2) 12" 4mm H# E11589		Procedure	Not Supplied	
Process	Not Supplied		Welder I.D.	Not Supplied	
Equipment Used	Shimadzu Universal Grade 1 Testing Machine, Model No. UH 500 KNI, Serial No. 121054600016				
Type of sample	Reduced Section	Special Preparations	Weld Reinforcement Removed		

Transverse Weld Tensile Test

Test No.	1	2
Diameter / Dimensions (mm)	2.61 × 30.24	3.58 × 30.41
Cross Sectional Area (mm²)	78.9	108.9
Tensile Load (kN)	54.3	72.9
Tensile Strength (MPa)	688	670
Fracture Location	Weld	Weld

This report applies only to the sample/s as tested.

Testing Technician	Michael Wu	Date of Issue	18/06/2024
Checked By	Rex Ong	Approved by	Michael Wu – Key Technical personnel
Qualification	BSci, PgDip	Qualification	BEng Tech (Mechanical)
Signature		Signature	

MTL Report No: J66111/1

Test Method: AS 2205.2.1:2003

Date Tested: 18th June 2024

Details:

Test 1: Taken from a production run of 8" 3mm 304L tube

Weld Tensile Strength measured at 688 MPa

Heat Cert gave a Tensile Strength of 654 MPa for the material used

Therefore, indicating a 5% higher strength in the weld

Test 2: Taken from a production of 12" 4mm 304L tube

Weld Tensile Strength measured at 670 MPa

Heat Cert gave a Tensile Strength of 632 MPa for the material used

Therefore, indicating a 6% higher strength in the weld