

# ROTECH Test Report

LABORATORY

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Rotech Number: 17-00839  
Issue: 1  
Date Reported: 25/09/2017  
Purchase Order No. 33862

Description: Elbow Forging 7/16 inch 90 degree  
Job No: 130959  
Part No: L162 Issue No. 1  
Cast No: L16009923

Specification: 316L  
Requirements: -  
Submitted by: SHARON THOMPSON  
Date Sample(s) Received: 18/09/2017  
Date(s) tested: 25/09/2017

Tested For:  
W.H. TILDESLEY LTD  
BOW STREET  
WILLENHALL  
WEST MIDLANDS  
WV13 2AN

The test items were submitted to the laboratory for:  
Mechanical - Tensile  
Mechanical - Hardness

Sample: 17-00839-001

Mechanical - Tensile

Tested in accordance with: ASTM A370 - 2014

Elongation method: Elongation at fracture

Description: Longitudinal test piece Test piece type: Round Original gauge length [mm]: 4D

Sample ID	Test piece size [mm]	Yield strength (0.2% offset) [MPa]	Tensile strength [MPa]	Elongation [%]	Reduction of area [%]
1	12.54Ø	552	665	33.5	74
Rqmts	-	170	485	30	50

Sample: 17-00839-002

Mechanical - Hardness

Tested in accordance with: ASTM E10 - 2015

Test load: 10/3000 Measurement device: Type A

Sample ID	Hardness [HBW]
1	195
Rqmts	-

F144576  
7/16" JIC F/F SWIV 90 DEG ELBOW 10K 316L

Comments: Test results conform to specification

REPORT ISSUED AND  
AUTHORISED BY

Chris Jones  
Technician

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TESTS MARKED "SC" HAVE BEEN SUBCONTRACTED. RESULTS IN THIS REPORT RELATE ONLY TO THE ITEMS TESTED.  
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TESTING CONDUCTED IN ACCORDANCE WITH MANAGEMENT SYSTEM MANUAL ISSUE 14.