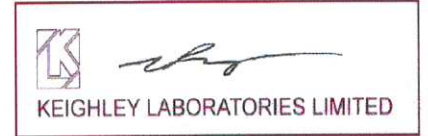


Certificate Ref: 3000413746

Order Ref: PO-03583  
Received: 08/11/2019  
Issue Date: 26/11/2019

For the attention of: Leah Hatch  
K & S Aerospace Components  
Unit 14 Eddystone Road  
South Hants Industrial Park  
SOUTHAMPTON  
Hampshire  
SO40 3SA



Lloyd Roper  
Metallurgical Technician

**BUTT WELDED HASTELLOY X SHEET**  
**Material Specification - Not Advised**

Welded By : G Winter  
Welder ID : KS03  
Welding Process : TIG  
Filler Rod : MSRR 9500/215  
Job Number : 01720

**Weld Test**

Overall Result Acceptable

**Visual Examination**

Condition As Welded  
Magnification Up to x25  
Result Acceptable

**Tensile Test**

**Specification**

Laboratory Temperature		20 °C
Dimensions	a x b	25.0 x 1.53 mm
Area	So	38.3 mm <sup>2</sup>
Maximum Force	Fm	29.01 kN
Tensile Strength	Rm	757 N/mm <sup>2</sup>
Tensile Strength	Rm	109.79 ksi
Broke		Clear of weld
Result		Acceptable - providing tensile strength meets the design requirements



0034

Decision Rule - Zero guard band approach implemented where applicable.  
Page 1 of 2

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### **Bend Test**

Laboratory Temperature	20 °C
Bend Radius	2 x thickness
Face Bend	Bent 180° without cracking.
Result	Acceptable

### **Metallographic Examination**

Magnification	x50 - x500
Etchant	B.O.S.
Section(s) assessed	1
Result	Acceptable

### **Note**

N/A

Test Schedule: C.A.A. - British Civil Airworthiness Requirements Chapter A8-10 as applicable.  
Test Schedule: Rolls Royce plc. - RPS 912 Issue 18 as applicable.  
Test Schedule: British Standard BS ISO 24394:2018 as applicable.

\*\*\* END OF DOCUMENT \*\*\*



0034

Decision Rule - Zero guard band approach implemented where applicable.  
Page 2 of 2

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