

Certificate Ref: 3000403865R  
This certificate replaces 3000403865

Order Ref: PO-03179  
Received: 09/11/2018  
Issue Date: 28/11/2018  
Re-issued: 07/01/2019

For the attention of: Leah Hatch  
K & S Aerospace Components  
Unit 14 Eddystone Road  
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Ashley Payne  
Metallurgical Technician

**BUTT WELDED NICKEL ALLOY SHEET**  
**Material Specification - Nimonic 75 (MSRR 7104)**

Welded By : J Gooch  
Welder Identity : KS09  
Welding Process : TIG  
Filler Rod : MSRR 9500/3

**Weld Test**

Overall Result Acceptable

**Visual Examination**

Condition As Welded  
Magnification Up to x25  
Result Acceptable

**Tensile Test**

Laboratory Temperature 21 °C  
Dimensions a x b 25.0 x 1.22 mm  
Area So 30.5 mm<sup>2</sup>  
Maximum Force Fm 24.48 kN  
Tensile Strength Rm 803 N/mm<sup>2</sup>  
Tensile Strength Rm 116 ksi  
Broke Adjacent to weld  
Result Acceptable - providing tensile strength  
meets the design requirements

**Specification**



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### **Bend Test**

Laboratory Temperature	21 °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**

Reason for re-issue: Additional Test Schedules added.

Test Schedule: C.A.A. - British Civil Airworthiness Requirements Chapter A8-10 as applicable.  
Test Schedule: Rolls Royce Plc RPS 912 Iss 18 as applicable.  
Test Schedule: British Standard BS ISO 24394:2008 + A1:2012 as applicable.

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