

Certificate Ref: 3000405176

Order Ref: PO-03230
Received: 08/01/2019
Issue Date: 31/01/2019

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



Ashley Payne
Metallurgical Technician

BUTT WELDED NICKEL ALLOY SHEET
Material Advised - C263

Welded By : G Winter
Welder ID : KS03
Welding Process : TIG
Filler Rod : 9500/16

Weld Test

Overall Result Acceptable

Visual Examination

Condition As Welded
Magnification Up to x25
Result Acceptable

Tensile Test

Laboratory Temperature		20 °C
Dimensions	a x b	25.0 x 1.21 mm
Area	So	30.3 mm ²
Maximum Force	Fm	26.1 kN
Tensile Strength	Rm	861 N/mm ²
Broke		Clear of weld
Result		Acceptable - providing tensile strength meets the design requirements

Specification



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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

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

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