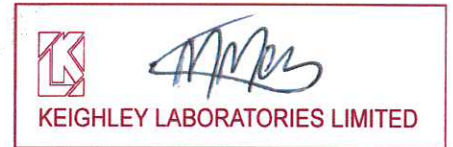


Certificate Ref: 3000412264

Order Ref: PO-03482
Received: 23/09/2019
Issue Date: 07/10/2019

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



Matthew Mellor
Technical Services Director

BUTT WELDED NICKEL ALLOY SHEET
Material Specification - Inconel 718

Welded By : G Winter
Welder ID : KS03
Welding Process : TIG
Filler Rod : MSRR 9500/220
Job Number : 1669

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 1.03 mm
Area	So	25.8 mm ²
Maximum Force	Fm	21.52 kN
Tensile Strength	Rm	834 N/mm ²
Tensile Strength	Rm	121.0 ksi
Broke		Clear of weld
Result		Acceptable - providing tensile strength meets the design requirements

GRW05585
Lhatch
8-10-19. 



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.

*: All information transcribed from samples

*** END OF DOCUMENT ***



0034

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



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