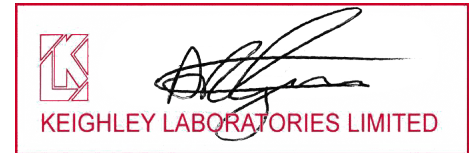


Certificate Ref: 3000403871R
This certificate replaces 3000403871

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
South Hants Industrial Park
SOUTHAMPTON
Hampshire
SO40 3SA



Ashley Payne
Metallurgical Technician

BUTT WELDED HASTELLOY SHEET
Material Specification - Hastelloy X

Welded By : G Winter
Welder Identity : KS03
Welding Process : TIG
Filler Rod : MSRR 9500/215

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 1.24 mm
Area	So	31.0 mm ²
Maximum Force	Fm	22.18 kN
Tensile Strength	Rm	715 N/mm ²
Tensile Strength	Rm	104 ksi
Broke		Clear of weld
Result		Acceptable - providing tensile strength meets the design requirements

Specification



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Certificate Ref: 3000403871R

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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

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.

*** END OF DOCUMENT ***



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