



APPROVAL

It is hereby certified that the company

**APPLUS
Barcelone**

is qualified for following
SPECIAL PROCESSES

- Laboratory testing :

- Tensile test on metallic materials
- Resilience test
- Hardness testing Brinell
- Hardness and microhardness testing Vickers(including hardness profile)
- Hardness profile for inspection of parts superficially treated per carburizing
- Hardness profile for inspection of decarburized depth
- Metallurgic structure of metallic material
- Evaluation of grain size of metallic material
- Preparation of macrographic and micrographic metallic material samples
- Electrical conductivity measurement on aluminium alloys
- Specimen machining without frozen process
- 3-points flexion fatigue
- 4-points flexion fatigue
- Alternating traction
- Fracture toughness test

This qualification is granted under
the conditions defined in appendix1

Marignane, 22/05/2018

Signé

J-Marc MERCADAL

Subcontractor Quality

LMP Testing Laboratory MA

Signé

Fabrice TREBEDEN

HO Mechanical Testing MA

LMP Testing Laboratory MA

APPENDIX 1

SPECIAL PROCESS : Laboratory testing

Performed in accordance with the following documents:

- Tensile test on metallic materials NF EN ISO 6892-1
- Resilience test NF EN ISO 148-1
- Hardness testing Brinell NF EN ISO 6506-1
- Hardness and microhardness testing Vickers(including hardness profile) NF EN ISO 6507-1
- Hardness profile for inspection of parts superficially treated per carburizing NF EN ISO 2639
- Hardness profile for inspection of decarburized depth NF EN ISO 3887
- Metallurgic structure of metallic material EI072 T-0027
- Evaluation of grain size of metallic material EI072 T-0041
- Preparation of macrographic and micrographic metallic material samples ASTM E 3, ASTM E 407, NFA 05-150
- Electrical conductivity measurement on aluminium alloys IGC 04 25 120
- Specimen machining without frozen process
- 3-points flexion fatigue NF EN 6072
- 4-points flexion fatigue NF EN 6072
- Alternating traction NF EN 6072
- Fracture toughness test IGC 04 21 119

With the following resources:

- NA

This Qualification is based on the following results:

- AH Audit report report: 2015-1031
- AH Testing reports 2015-3155 and 2015-3350
- ISO 17025 ENAC accreditation
- MTL NADCAP accreditation
- Airbus qualification

The Qualification is subject to the following specific conditions:

- NA

Restrictions:

- None

Additional information:

- APPLUS is authorized to sub-contract to a service provider accredited NADCAP for Steel heat treating.

This qualification could be suspended or cancelled at any time in case of decrease in quality. All modifications initiated by supplier must be submitted to AIRBUS Helicopters for approval. In case of AIRBUS Helicopters documentation revision, modifications have to be implemented or request for deviation have to be submitted to AIRBUS Helicopters for approval.

