

Site de Gennevilliers

Engineering and Quality of
Materials and Processes Division
Material Quality and Processes Department
Gennevilliers Plant
YQG (BASILE 2569)

INCO TEST (a division of Special Metals Wiggin Ltd)
Holmer Road
Hereford, hr4, 9sl
UNITED KINGDOM
Attention to Jonathan SILK

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COLOMBES, 3rd of February 2012

SUBJECT : Laboratory Qualification FAL 042

Dear Sir,

As your Laboratory is currently a NADCAP accredited laboratory (certificate MTL n°138585), we are pleased to inform you that you have been qualified as a testing laboratory according to SAFRAN procedure GRP-0125 and Snecma procedure PRO-0430 for the tests defined on the FAL N° 042 enclosed. This certificate covers your tests activities from January 1st 2012 to December 31st 2014.

The renewal of your Qualification is based on your Nadcap Certificate and the results of your participation to the Airbus-GE-Snecma Proficiency Testing Program (PTP) managed by Exova PTP in 2011.

Your root cause analysis and corrective actions after outlier results from the PTP were accepted and they will be evaluated in the PTP this year.

Continuance of qualification depends on conditions outlined in SAFRAN procedure GRP-0125 and Snecma procedure PRO-0430. At any time, the qualification can be retracted or suspended by Snecma.

This qualification does not guarantee the acceptance of all articles produced for SAFRAN group.

Yours faithfully.

Head of Material Quality and Processes Department



François CASTEILLA / Po Thomas TILLARD

Fiche de qualification Laboratoire Laboratory Qualification Certificate

Date : **03/02/2012**

Snecma - Groupe SAFRAN

Etablissement de Courcouronnes - 10, Allée du Brévent CE 1420 - COURCOURONNES - 91019 EVRY CEDEX

**prononce la qualification du laboratoire suivant les procédures GRP-0125 et PRO-0430 /
pronounces the laboratory qualification according to GRP-0125 and PRO-0430 /**

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pour les essais suivants / for the following tests :

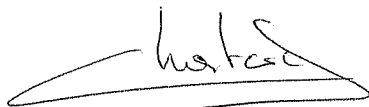
Code	Type d'essai/Tests	Domaine d'application/ Application field
A	Essai de traction à température ambiante/ Tensile test at ambient temperature	
B	Essai de traction à température élevée/ Tensile testing at high temperature	
C	Essai de fluage rupture/Stress rupture test	
D	Analyse chimique par voie humide/Wet chemical analysis	
F1	Analyse par Fluorescence X / X-ray fluorescence analysis	
F2	Analyse par ICP / ICP analysis	
F3	Analyse par émission optique / Optical emission	
G	Dosage du carbone/ Carbon determination	
H	Dosage du Soufre/Sulfur Analysis	
I	Dosage de l'hydrogène/Hydrogen Analysis	
J	Dosage de l'azote/Nitrogen Analysis	
K	Dosage de l'oxygène/Oxygen Analysis	
L1e	Micrographie Optique Autres/Metallographic optical/Other	
L4	Microdureté(<300g) /Microhardness(<300g)	
M1	Essai de dureté HB / Hardness test HB	
M2	Essai de dureté HV / Hardness test HV	
M3	Essai de dureté : HR / Hardness test HR	
N	Essai de Flexion par choc/ Impact bending test	
T	Essais physiques divers/Various physical tests	
XA	Essai de fluage Allongement/Elongation Creep test	
XG	Traitement thermique des éprouvettes/Heat treatment of test pieces	
XL2	Examen macrographique/Macrographic inspection	

Qualification prononcé sur la base Qualification based on	Certificat MTL n°138585 délivré par PRI NADCAP. PTP2011 MTL certificate n°138585 delivered by PRI NADCAP PTP2011
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Date de fin de validité de la Qualification/ End of the Qualification

31 Décembre 2014/December 31st 2014

L' Auditrice



Sylvie CHATARD

Le chef de département Qualité Matériaux
et Procédés de l'Usine de Gennevilliers



François CASTEILLA – PO Thomas TILLARD