


**SAFRAN LANDING  
SYSTEMS**

prononce la qualification sur les référentiels indiqués pour l'ensemble des sociétés du Groupe Safran suivant GRP-0087 – GRM-0123.  
*grants the qualification on the specifications indicated for all companies of Safran Group following GRP-0087 – GRM-0123*

**Element Materials Technology Canada Inc.**  
**Pointe-Claire**  
**104, AV. Nordic, Pointe-Claire QC H9R 1E6**

Safran Process N°	Code Lab N°	Procédés Processes	Référentiel Technique Technical Specification	Statut Status	Restrictions techniques Technical limitation	Fin de Validité Expiration Date
8.01.00.02	Z2	Metals - Specimen machining except fatigue	PCS-1003, ASTM E-8	Qualified with technical restriction(s)	See appendix to AQPS 2018-012	Not limited
8.02.00.01	A	Metals - Tensile test at room temperature	ASTM E-8	Qualified	None	
8.02.00.14	N	Metals – Impact Test	ASTM E-23	Qualified	None	
8.02.00.17	M1	Metals - Brinell hardness	ASTM E-10	Qualified	None	
8.02.00.18	M2	Metals – Vickers Hardness	ASTM E-384, ASTM E-92	Qualified	Macro: 5KG, 10KG Micro: 100g, 200g, 300g, 500g	
8.02.00.19	M3	Metals - Rockwell hardness	ASTM E-18	Qualified	None	
8.03.00.06	L1h	Metals - Case depth determination by microhardness (Nitriding, carburizing, decarburizing...)	ASTM E-384, ASTM E-92	Qualified	HV	
8.03.00.13	L4	Metals - Microhardness (< 300g)	ASTM E-384, ASTM E-92	Qualified	HV	
8.03.00.16	XL3	Metals - Macrographic examinations	PCS-1150	Qualification with technical restriction	Alternative method (method B according to PCS-1150 Iss2 para 5.B) only with HV 10kg	
8.05.00.01	Q	Metals - Salt Spray Test	ASTM B-117	Qualified	None	
8.05.04.05	ENV2	ENV2 – Coating – Hydrogen Embrittlement	ASTM F-519	Qualified	None	

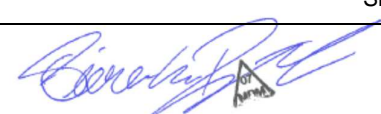
8.03.00.99	L1e	Metals – Optical micrography examination: Other	ASTM B487	Temporary qualification	Expiration: March 30, 2022. Supplier shall provide sample for Round Robin.
<b>N° de rapport</b> 2018-012 ind.3 <i>Report n°</i>			<b>Observations :</b> <i>Ind1: Extension of qualification until 30/11/2018</i> <i>Ind2: Extension of qualification until 02/03/2019</i> <b>Remarks :</b> <i>Ind3: Qualification with new end of validity</i> <i>Ind4: Qualification with no expiration date.</i> <i>Ind.5: Scope extension: ASTM-B487 with temporary qualification</i>		
<p>La validité des qualifications des fournisseurs est confirmée et actualisée par la publication de la liste des procédés spéciaux qualifiés sur le site (AIRCOLLAB : <a href="http://www.boostaerospace.com/aircollab/">www.boostaerospace.com/aircollab/</a> L'activation des accès fournisseurs à ce site se fait par demande à l'adresse suivante : <a href="mailto:saf.admin-gps@safran.fr">saf.admin-gps@safran.fr</a>./ The supplier qualification validity is confirmed and updated by the publication of qualified special process list on website (AIRCOLLAB: <a href="http://www.boostaerospace.com/aircollab/">www.boostaerospace.com/aircollab/</a>). The activations of suppliers access to the website will be done upon request to this following email address: <a href="mailto:saf.admin-gps@safran.fr">saf.admin-gps@safran.fr</a></p>					
<b>Auditeur / Responsable de la qualification</b> <b>Auditor / Qualification leader</b>					
<b>Date</b>	<b>Nom</b> <i>Name</i>		<b>Signature</b>		
Nov 08, 2021	Pierre-Luc Bélanger, SPQA and SAFRAN Lab auditor Montréal				

**Type d'éprouvettes usinées pour essais mécaniques hors fatigue (LCF et HCF)**  
*Family of machined specimens for mechanical testing out of fatigue test (LCF and HCF)*

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Safran Process N°	Procédé Process	Famille d'éprouvettes * Specimen family *	Materiaux ** Material **	Huile de coupe Coolant	Produit de stockage contre la corrosion Storage product against corrosion
Z2 8.01.00.02	<b>Usinage des éprouvettes sur matériaux métalliques, hors fatigue</b> / Other than fatigue on test piece machining on metallic materials.	- Eprouvette cylindrique/ Cylindrical specimen, $\phi \leq 6.5\text{mm}$ - Eprouvette cylindrique/ Cylindrical specimen, $\phi > 6.5\text{mm}$ - Eprouvette plate/ Flat specimen	- Low alloy steel (300M, 4340, 35NCD16) - PH steel - Custom 465 (drawing 100028954, 100028955)	- MasterFluid Solutions TRIM Microsol 585XT	-

Auditeur Responsable de la Qualification / Auditor Qualification Leader

Date	Auditeur/ Auditor	Signature
August 22, 2019	Pierre-Luc Bélanger, SPQA and SAFRAN Lab auditor Montréal	

\* Si oui préciser le/les matériaux suivant la codification suivante/ If yes specify the material(s) by the following codification :

AC = Acier (hors ML340)/ Steel (Out of ML340); **ML340** = Acier ML340/ ML340 steel; **Ni** = Base Nickel/ Nickel base; **Co** = Base Cobalt/ Cobalt base; **Ti** = Base Titane/ Titanium base; **Al** = Base Aluminium/ Aluminium base; Co-matériaux/ Co-materials → Spécifier la nuance (TiAl par exemple)/ Specify the Grade (TiAl for instance)

\*\* Si besoin, ajouter d'autres types d'éprouvettes/ If necessary, add other types of specimen

**Toute modification de gamme d'usinage doit être signalée à Safran Aircraft Engines ou Safran**  
*Any changes in machining sheet must be reported to Safran Aircraft Engines or Safran*