

**Société Safran émettrice : SAFRAN Aircraft Engines**  
*Issuing Safran company*

**prononce la qualification sur les référentiels indiqués suivant GRP-0087 – GRM-0123.**  
*grants the qualification on the specifications indicated as per GRP-0087 – GRM-0123.*

### ACCURATE BRAZING INC.

36 COTE AVENUE  
 GOFFSTOWN, NH 03045 USA


**Pour les procédés spéciaux suivants, les domaines sont précisés page suivante**  
*For the following special processes, refer to next page for scope definition*

N° procédé Safran <i>Safran process N°</i>	Procédés <i>Processes</i>	Référentiel Technique <i>Technical</i>	Statut <i>Status</i>	Restrictions techniques <i>Technical limitation</i>	Fin de Validité <i>Expiration Date</i>
12.5.4	Détente/ Stress relieving	DMP11/ AMS2774/ Pr-0011	Qualified		<b>No Date of end of validity</b>
12.5.7	Recuit-Homogénéisation/ Homogenization Annealing	DMP11/ AMS2774/ Pr-0011			
12.5.5	Mise en solution/ Solution heat treating	DMP11/ AMS2774/ Pr-0011			
12.5.8	Traitement de revenu vieillissement/ Ageing process	DMP11/ AMS2774/ Pr-0011			

N° de rapport <i>Report No.</i>	Observations <i>Remarks</i>
« Completed and signed DQ-0011 » « DQ-0011 General Characteristics of Equipments » CRQPS SAFRAN_ACCURATE BRAZING Inc_GOFFSTOWN_HT_Rev00	Rev 00 – 26/08/2018: Temporary qualification based onto Qualification file Rev 01 – 14/11/2018 : Temporary qualification based on of initial audit done on December 05-06 <sup>th</sup> , 2018 with minor finding Rev 02- 15/01/2019: Qualified based on resolution of the minor CAR Quality supervision

La validité des qualifications des fournisseurs est confirmée et actualisée par la publication de la liste des procédés spéciaux qualifiés sur le site (AIRCOLLAB : [www.boostaerospace.com/aircollab/](http://www.boostaerospace.com/aircollab/)). L'activation des accès fournisseurs à ce site se fait par demande à l'adresse suivante : [saf.admin-gps@safran.fr](mailto:saf.admin-gps@safran.fr) / The supplier qualification validity is confirmed and updated by the publication of qualified special process list on website (AIRCOLLAB: [www.boostaerospace.com/aircollab/](http://www.boostaerospace.com/aircollab/)). The activations of suppliers access to the website will be done upon request to this following email address: [saf.admin-gps@safran.fr](mailto:saf.admin-gps@safran.fr)

**Auditeur / Responsable de la Qualification**  
*Auditor / Qualification Leader*

Date :	Nom / Name :	Signature / Visa :
January15th, 2018	Thierry WARTEL	

### Domaine de Qualification des Procédés Spéciaux

#### Special Processes Qualification Scope

Identification des installations <i>Facilities identification</i>	Caractéristiques de l'installation <i>Facilities features</i>	Matériau(x) <i>Material(s)</i>	Domaine d'utilisation <i>Operating scope</i>	Commentaires <i>Comments</i>
Furnace N°3	Furnace N°3 Trademark Abar/ipsen Operating range at 600 - 1400°F Qualified volume :72 x 36 x 26 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	600 – 1400° Class : 2 600 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°4	Furnace N°4 Trademark Abar/ipsen Operating range at 900 - 2325°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°5	Furnace N°5 Trademark Abar/ipsen Operating range at 900 - 2325°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°6	Furnace N°6 Trademark Abar/ipsen Operating range at 900 - 2325°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°7	Furnace N°7 Trademark Abar/ipsen Operating range at 900 - 2325°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen)	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded

	Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen			
Furnace N°8	Furnace N°8 Trademark Abar/ipsen Operating range at 900 - 2325°F Maximum Temperature: 2400°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15)	Over-Temperature TC recorded
Furnace N°09	Furnace N°9 Trademark Abar/ipsen Operating range at 900 - 2325°F Maximum Temperature: 2400°F Qualified volume :80 x 48 x 52 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	750-2325°F Class : 2: 750 - 2325 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°10	Furnace N°10 Trademark Abar/ipsen Operating range at 900 - 2325°F Qualified volume :57 x 36 x 28 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	900 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded
Furnace N°11	Furnace N°11 Trademark Abar/ipsen Operating range at 750 - 2325°F Qualified volume: 80 x 48 x 52 " Atmosphere : Vacuum (vacuum/Argon/Nitrogen) Instrumentation type B according to AMS2750 Quenching medium: Argon or Nitrogen	Nickel based parts	750 - 2325°F Class : 2: 900 – 1400 °F (+/-10) Class 3 : 1400°-1700°F (+/-15) Class 4 : 1700-2325°F (+/-20)	Over-Temperature TC recorded