

Société Safran émettrice : **Safran Aircraft Engines** prononce la qualification sur les référentiels indiqués suivant GRP-0087 – GRM-0123.  
Issuing Safran company **Safran Aero Boosters** grants the qualification on the specifications indicated as per GRP-0087 – GRM-0123.

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

Safran Process N°	Procédés Processes	Référentiel Technique Technisai Specification	Statut Status	Restrictions techniques Technical limitation	Fin de Validité Expiration Date
12.5.4	Stress relieving	Pr0011 DMP11	Qualified with technical restriction	Furnaces F56 ; F72 ; F91 ; F92 and F49 cannot be used as class 3 furnaces because they are declared in DQ as +/-8°C instead of +/-7°C.	Not limited
12.5.5	Solution heat treating				
12.5.6	Normalizing				
12.5.7	Homogenization - Annealing				
12.5.8	Ageing process				
12.5.12	Quenching				

N° de rapport Report No.	Observations Remarks
DQ-0011-1.2_FORGITAL_Italy_HT_Filled-In_2018-05-24 -	<p>Nadcap accreditation : 5292174516 Renewal of qualification based on Nadcap accreditation <b>Rev 01 : adding of Safran Aero Boosters as "Issuing Safran Company" (02/10/2018)</b></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 : [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 :	Name :	Signature :
20/09/2018	T. PERIN	

## 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>
FA3	Heating mode : gas burners Serviceable dimensions (mm) : 3200 x 6000 x 1500 Type D+ Atmosphere : air Quench water and oil	Steel Nickel base Cobalt base Titanium base	Class 3 : 500 – 1180°C	Water quench : 56m3 Oil quench : 60m3
F51	Heating mode : gas burners Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 2 : 450 – 750°C Class 3 : 751 – 1050°C	Water quench : 230m3
F55	Heating mode : gas burners Serviceable dimensions (mm) : 3200 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 500 – 1150°C	Water quench : 230m3
F57	Heating mode : radiant tubes Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base Aluminum base	Class 2 : 100 – 750°C	Water quench : 230m3
F73	Heating mode : radiant tubes Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base Aluminum base	Class 2 : 100 – 750°C	Water quench : 230m3
F50	Heating mode : gas burners Serviceable dimensions (mm) : 3200 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 500 – 1050°C	Water quench : 230m3

F56	Heating mode : gas burners Serviceable dimensions (mm) : 3200 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 450 – 1050°C Class according AMS instead of Pr0011	Water quench : 230m3
F72	Heating mode : gas burners Serviceable dimensions (mm) : 3200 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 450 – 1050°C Class according AMS instead of Pr0011	Water quench : 230m3
F91	Heating mode : gas burners Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 500 – 1080°C Class according AMS instead of Pr0011	Water quench : 230m3
F92	Heating mode : gas burners Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 3 : 500 – 1080°C Class according AMS instead of Pr0011	Water quench : 230m3
F49	Heating mode : gas burners Serviceable dimensions (mm) : 3400 x 3400 x 1400 Type D+ Atmosphere : air Quench water	Steel Nickel base Cobalt base Titanium base	Class 4 : 300 – 500°C Class 3 : 501 – 1050°C Class according AMS instead of Pr0011	Water quench : 230m3