

TE testing facilities questionnaire

Company name and location	Thales Alenia Space, 26 Av JF Champollion, 31037 TOULOUSE
Facility name and location	45m3 Climatic Chamber & TED, Bat L
Contact email	stéphane.marcet@thalesaleniaspace.com
Maximum Sample/Test article dimension (H x L x W)	Ø3500 x 1500 (H)
Optical bench dimension (LxW) if present	NA
Environment	
Cleanliness levels:	Temperature and hygrometry parameters controlled.
Minimal pressure (Typical) mbar:	1000 mbar (Ambient pressure).
Temperature range (K)	383K / 153K (+110°C / -120°C).
Humidity range (%)	<2% without recording, (NITROGEN atmosphere).
Temperature measurements:	
Temperature measurements technique	Thermocouples.
Temperature measurements range (typical) (K)	383K / 153K (+110°C / -120°C).
Temperature measurements uncertainties (typical) (K)	+/-1K (±1°C).
Geometric measurement 1:	
Method:	Videogrammetry.
Deformation (displacement, rotation) range	-
Deformation (displacement, rotation) uncertainties	Usually up to 10 µm (following dimensions, options and parameters).
Equipment in vacuum (Yes/No)	NO.
Optical ports (number, diameter)	NA.
Customer can bring in its own GSE for TE test (Yes/No)	YES (after compatibility checking).
Other useful information	Specimen usually posed on tools on the floor. INVAR or ZERODUR REFERENCE BAR (40 calibrated length). Constant Nitrogen blowing excepted during videogrammetry measurement.
URL/Link to presentation of facility	En attente...

Please return a completed form for each facility that you could make available for colleague organisations to thermoelastic@esa.int

In case of questions, please feel free to ask these as well through thermoelastic@esa.int.