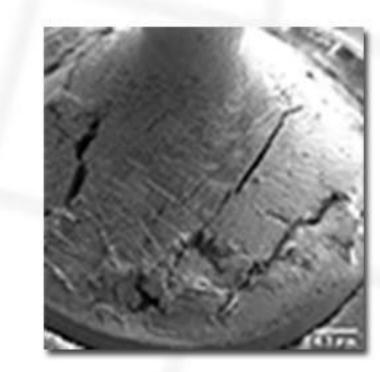


## Fire Testing Proposal Request Checklist

innovation

ITRI Innovation is a materials based consultancy and testing company.













Our expert team of consultants, technologists and state-of-the-art laboratory can help you with all your fire and testing requirements. Our organisation is structured to respond rapidly to projects both large and small.

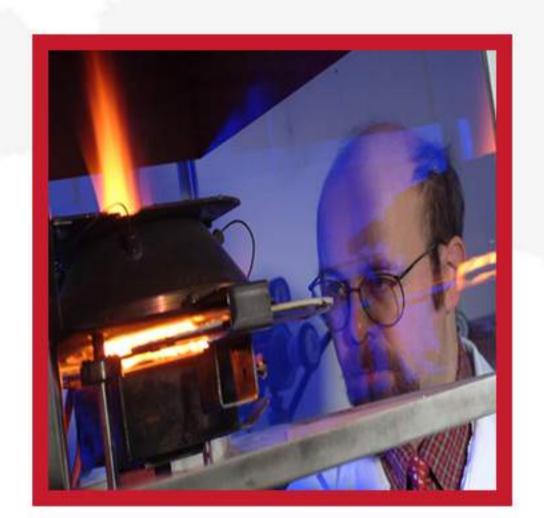
This report is the most comprehensive and well presented, we have ever received, with components.

John Batey, Astrium



If you have a fire testing requirement, or an issue that you feel we may be able to help resolve, we would be happy to put together a proposal for you.





Below is a checklist of topics you might consider including with your request. The more information you can provide, the more comprehensive a proposal we will be able to provide. You do not have to provide details for all the items listed; they are there for guidance only.

GENERAL		
	BACKGROUND TO YOUR REQUIREMENT (WHAT HAS PROMPTED THIS REC	QUIREMENT?)
	MATERIAL TYPE	
	ANTICIPATED ARRIVAL DATE OF SAMPLES	
	REQUIRED TURNAROUND TIME	
	TEST STANDARDS TO BE ADHERED TO	
	TEST PARAMETERS REQUIRED	
	SPECIFIC TEST EQUIPMENT REQUIREMENTS	
	REPORTING REQUIREMENTS	
	FORMAT FOR REPORT (PDF/EXCEL/WORD/OTHER) REPORT CONTENTS SUMMARY ONLY OR DETAILS PER SAMPLE? INDIVIDUAL TEST RESULTS REQUIRED?	
	WHAT SAMPLE REFERENCES SHOULD WE USE?	ITRI Innovation Laboratory

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## Fire Testing Proposal Request Checklist

FIR	re Testing							
	WHICH TEST/S DO YOU REQUIRE?	LIMITE UL-94		CONE CALORIMETRY  NBS SMOKE BOX				
	WHAT FORM OF SAMPLE WILL BE USED?  (E.G. SELF-SUPPORTING STICKS OR FLEXIBLE / FABRIC TYPE MATERIALS)		WHAT SAMPLE NAMES DO APPEAR IN THE FINAL REP					
	WHAT DIMENSIONS (CM) ARE THE SPECIMENS?		ARE YOU PROVIDING THE SPECIMENS/MATERIAL FO					
	ARE YOUR SPECIMENS STANDARD SIZES (SEE BELOW)?  IF NOT, WHAT DIMENSIONS (MM) ARE THEY?		HOW MUCH MATERIAL CA YOU PROVIDE?	N				
UL	94							
	WHICH VERSION OF UL-94: 5V; VERTICAL; HORIZONTAL?		HOW MANY SAMPLES  (NORMALLY 5-10 SPECIMENS REQ.)	UIRED PER SAMPLE.)				
LIM	ITED OXYGEN INDEX (LOI)							
	HOW MANY SAMPLES (3-5 SPECIMENS NORMALLY REQUIRED PER SAMPLE.)							
Co	NE CALORIMETER							
	HOW MANY REPLICATES PER SAMPLE: (NORMALLY 1, 2 OR 3)		WHAT HEAT FLUX DO YOU (BETWEEN 25KW – 100KW)	J NEED?				
	DO YOU WANT IMAGES OF THE RESULTANT CHARREI	D SAMPL	E?					
NB	SS SMOKE BOX							
	HOW MANY BURNS PER SAMPLE?  (NORMALLY 1, 2 OR 3)		WHICH VERSION(S) OF THE TEST DO YOU REQUIRE?	ISO 5659-2, BS 6401, ASTM E662)				
	What mode of test do you require?		WITH PILOT FLAME WITHOUT PILOT I	FLAME BOTH				



## Fire Testing Proposal Request Checklist

## SPECIMEN DIMENSIONS AND REQUIREMENTS

Test Method	Length (mm)	Width (mm)	Thickness (mm)	Minimum number of specimens required
Limited Oxygen Index (LOI)	120	7	3	5
NBS Smoke Box	76	76	2-10	6*
Cone Calorimeter	100	100	2-50	3*
UL-94 Vertical Flame Test	127	12.7	0.8-12.7	5

<sup>\*</sup> NBS Smoke Box and Cone Calorimeter standards (BS, ASTM, ISO) recommend triplication; NBS tests to be carried out in both flaming and non-flaming (smouldering) modes = 6 burns.