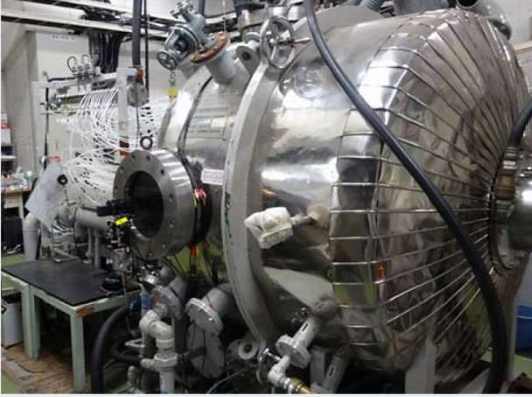


2,500°C Heat Resistant Pitch-based CMC composite

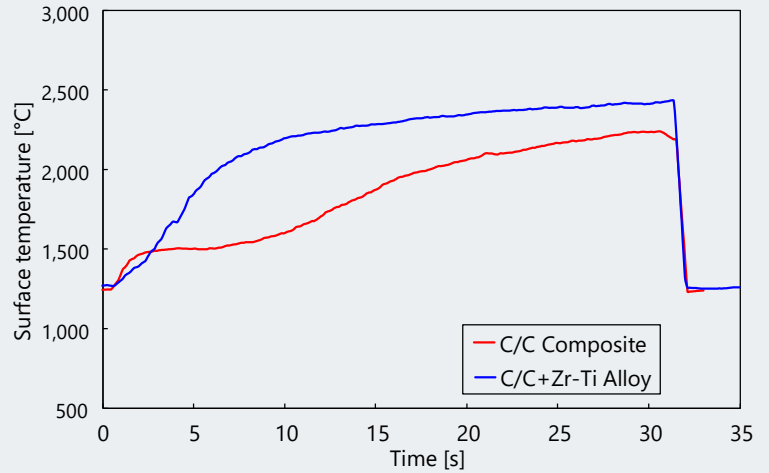
Application:

Rocket nozzle, Heat-resistant materials for fusion reactors

Arc heating wind tunnel test machine
(JAXA)



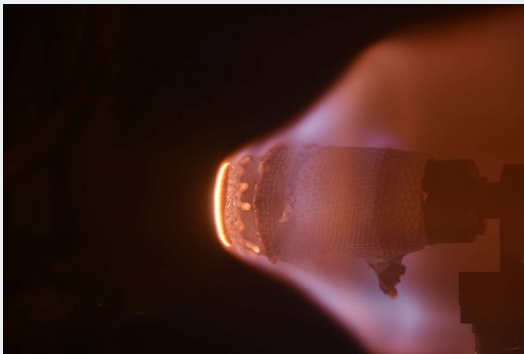
Surface temperature



Sample/Test Condition/Result

Sample	Density	Test Condition		Thickness		
		Heat Rate	Distance	Before Test	After Test	Δ
	g/cm ³	MW/m ²	mm	Mm	mm	mm
C/C Composite	1.69	4.7	100	8.08	7.32	-0.76
C/C+Zr-Ti Alloy	2.34			9.77	9.86	0.09

Test Specimen Appearance



Sample	Before Test	After Test
C/C Composite		
C/C +Zr-Ti Alloy		

Under joint development with Tokyo University of Science.
There were no cases of detachment in "Pitch-based C/C composite + Zr-Ti Alloy" after the arc heating wind tunnel tests.