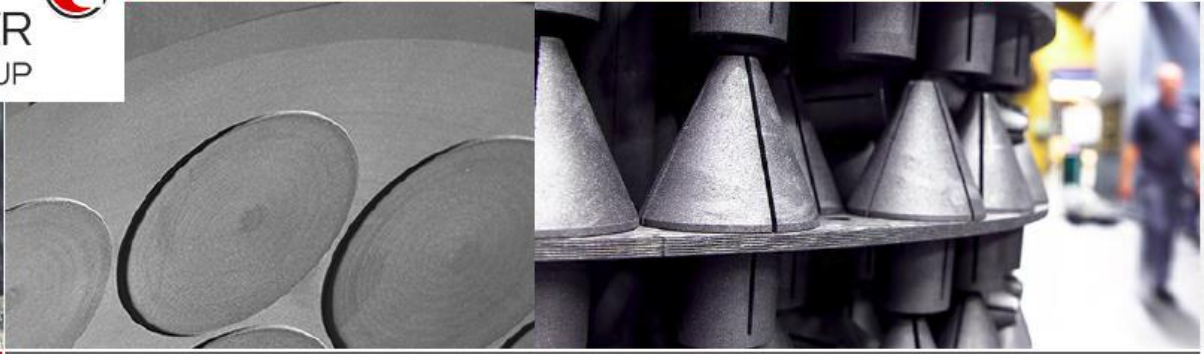
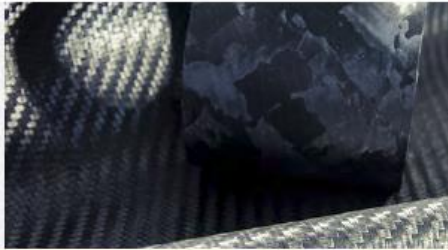


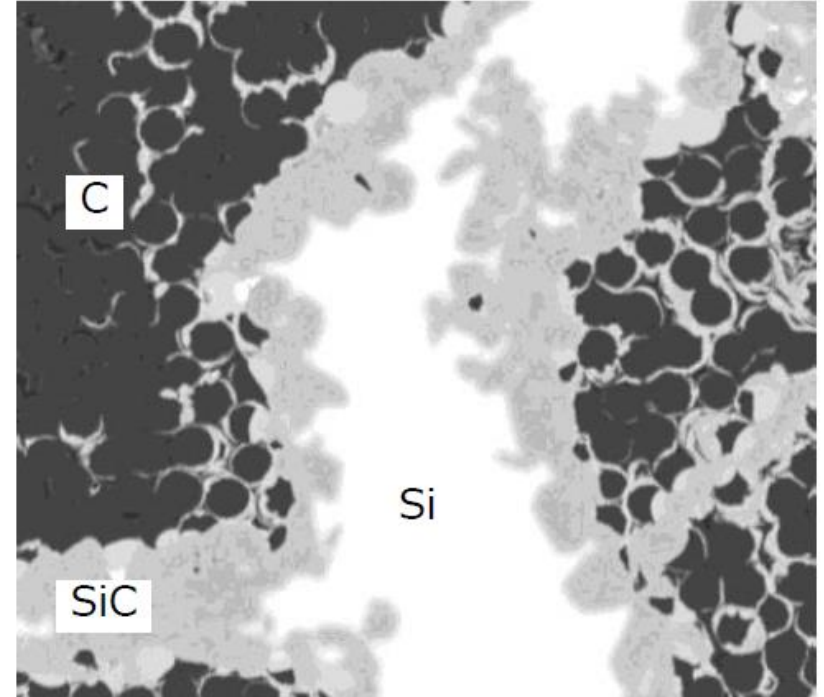
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CARBON – THE POWER TO MATERIALIZE THE FUTURE

CCM-190S
High Temperature Applications

01 CCM-190S (Si-infiltrated CFRC)



01 CCM-190S (Si-infiltrated CFRC)

	Unit	IGS-743	CCM-190C	CCM-190S
Material		CIP	long fiber CFRC	
Fiber Orientation		-	0/90°	
Bulk Density	g/cm ³	1,80	1,60	2,00
Bending Strength	Mpa	54	160	200
Bending Elastic Modulus	Gpa	10	65	95
Tensile Strength	Mpa	35	260	300
Tensile Elastic Modulus	Gpa		80	96
Compressive Strength	Mpa	118	90	270
Interlayer Shear Strength * ¹	Mpa		9	13
Porosity * ²	%	11	11	3
Gas Permeability	x10 ⁻¹⁸ m ²	8000	130000	60
Dusting Amount	piece/28L	260	200	50
Relative Abrasion	m ² /N	230	6500	500 * ³

*1 measured by 'Short Beam Method'

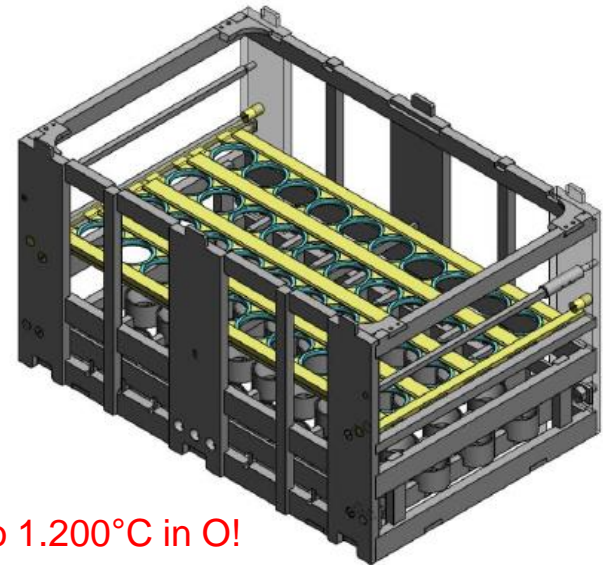
*2 measured with Mercury Porosity Meter

*3 counterpart (SUJ2 ball) is abraded as well

01 CCM-190S (Si-infiltrated CFRC)

Exemples of Applications :

- ④ Pusher Furnaces (gas-fired)
- ④ LPC
- ④ Oil Quench plus washing
- ④ Highly Oxygen-containing atmospheres



Up to 1.200°C in O!

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