

CHARACTERISTICS DATA / PRODUCTS LINE UP

1) CHARACTERISTICS DATA

CHARACTERISTICS		UNIT	FS140[AC100]	FS240[AC200] PLATE	FS240[AC200] BAR	FS320	FS540[FC500]	FS740
Heat Treatment Temperature		°C	2500	2000	2000	2000	2000	2000
Bulk Density		g/cm³	1.6	1.6	1.6	1.6	1.6	1.6
Flexural Strength	⊥	MPa	130	200	147	130	170	190
Flexural Modulus	⊥	GPa	65	45	44	27	40	41
Tensile Strength	∥	MPa	100	140	98	110	150	190
Tensile Modulus	∥	GPa	70	52	52	30	50	50
Compressive Strength	∥	MPa	50	130	95	110	120	130
	⊥		75	140	95	120	140	190
Interlaminar Shear Strength		MPa	15	13	13	10	17	17
Coefficient of Thermal Expansion (RT-1000°C)	∥	10 ⁻⁶ /°C	0.2	0.6	0.7	1.4	1.4	0.6
	⊥		10.8	8.5	8.6	8.5	10.5	9.2
Thermal Conductivity (25°C)	∥	W/m·K	120	34	34	27	40	40
	⊥		32	15	15	21	10	12
Specific Heat	25°C	J/kg·K	750	750	750	750	750	750
	1300°C		1970	1970	1970	1970	1970	1970
Volume Resistivity	∥	μΩcm	1300	2500	2900	3100	2200	2300
Reinforcement Fiber			Short Fibers	Long Fibers	Long Fibers	Long Fibers	Short Fibers	Short Fibers
Fiber Orientation			2D Random	0°/90°	0°/90°	0°/90°	2D Random	2D Random
Main Applications			Precision Machined Components	Heat Resistant Structures	Heat Resistant Structures	Heat Resistant Structures	Precision Machined Components	Precision Machined Components

*The above data are typical values information only and are not binding.

*Sheets (FS240, FS320, FS320HB) and other shaped components are excluded.

2) PRODUCTS SPEC.

① C/C STANDARD PLATE / SHEET

CHARACTERISTICS	UNIT	FS140[AC100]	FS240[AC200] PLATE	FS240[AC200] BAR	FS320	FS540[FC500]	FS740
PLATE SIZE	mm	1000 x 2000 x 27	1000 x 2000 x 3	—	1000 x 2000 x 3	1000 x 1000 x 6.4	1000 x 1000 x 6.4
		—	1000 x 2000 x 4	—	1000 x 2000 x 5	1000 x 1000 x 9	1000 x 1000 x 9
		—	1000 x 2000 x 5	—	1000 x 2000 x 8	1000 x 1000 x 11	1000 x 1000 x 11
		—	1000 x 2000 x 6	—	1000 x 2000 x 10	1000 x 1000 x 13	1000 x 1000 x 13
		—	1000 x 2000 x 8	—	1000 x 2000 x 15	1000 x 1000 x 15	1000 x 1000 x 15
		—	1000 x 2000 x 10	—	1000 x 2000 x 20	1000 x 1000 x 21	1000 x 1000 x 21
		—	1000 x 2000 x 15	—	—	—	—
		—	1000 x 2000 x 20	—	—	—	—
BAR SIZE	mm	—	—	190 x 1900 x 75	—	—	—
		—	—	—	—	—	—
SHEET SIZE	mm	—	1000 x 2000 x 1.2	—	—	—	—
		—	1000 x 2000 x 1.6	—	—	—	—
		—	1000 x 2000 x 2	—	—	—	—

② C/C STANDARD COIL SPRING

CHARACTERISTICS	UNIT	TYPE-A	TYPE-B	TYPE-C	TYPE-D
Outer Diameter	mm	ø31	ø50	ø50	ø50
Inner Diameter	mm	ø19	ø20	ø30	ø20
Free Length	mm	L40	L25	L27.5	L40
Spring Constant	kgf/mm	2	2	2.5	3.5
Shrinkage Allowance	mm	7	5	5	7

③ C/C STANDARD THREADED ROD

④ C/C STANDARD NUT

⑤ C/C STANDARD ROD

STANDARD SPEC			STANDARD SPEC			STANDARD SPEC		
SIZE	mm	M6 x 1000	SIZE	mm	M6 14 x 14 x 5	SIZE	mm	ø6 x 1000
		M8 x 1000			M8 16 x 16 x 5			ø8 x 1000
		M10 x 1000			M10 20 x 20 x 10			ø10 x 1000
		M12 x 1000			M12 22 x 22 x 10			ø12 x 1000
		M14 x 1000			M14 24 x 24 x 10			ø14 x 1000
		M16 x 1000			M16 26 x 26 x 10			ø16 x 1000
		M20 x 1000			M20 32 x 32 x 20			ø20 x 1000

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*Special size orders available upon request. For any consultation, please contact us.