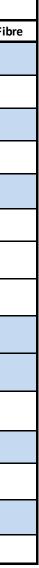


Neftec C/C Composite Data - 2023

Material Grade			PC70	РС70Н	PC30	PC40
Fiber Direction / Length			Short/Random Pan Fibre	Short/Random Pan Fibre	Short/Random Pan Fibre	Short/Random Pitch Fib
Bulk Density		g/cm ³	1.65	1.7+	1.65	1.65
Flexural Strength	Flexural Strength		200	220	180	180
Tensile Strength		МРа	120	145	120	160
Youngs Modulus		Gpa	45	50	45	75
Compressive Strength		МРа	120	200+	110	190
Interlaminar Shear Strength		МРа	18	19+	16	16
(RT-1300C)	I	10 ^{-6/C}	1.0	1.0	1.0	0.3
Coefficient of Thermal Expansion	T	10	10.4	10.4	10.4	10.6
Thermal Conductivity	∥(X/Y Axis)		35	35	100	130
	上(Z Axis)	₩/m•K	12	12	20	29
Specific Heat	20C	J/Kg•K	720	720	720	740
Electrical Resistivity		μΩcm	2000	1800	1400	1200
Charpy Impact Strength		KJ/m2	20	20	20	20
Shore Hardness			75	75	70	75
Temperature rating		°C	2000	2000	2400	2400

Note: Information provided is average value only and not guaranteed.



Sizes		PC70	РС70Н	PC30	PC40
Standard production dimensions	Standard Stocked Thicknesses	Grade size and thickness availability			
500 x 2000 or 500 x 1000	31mm to 120-130mm	Yes	Yes	Yes	NA
1000 x 1000	1.2mm to 41mm	Yes	Yes	Yes	Yes
1220 x 1220	1.2 mm to 30mm	Yes	Yes	Yes	NA
2000 x 1220	1.2 mm to 30mm	Yes	Yes	Yes	NA
2000 x 1120	1.2mm to 41mm	Yes	Yes	Yes	NA
2000 x 1000	1.2mm to 41mm	Yes	Yes	Νο	Yes
Special order sizes					
2000 x 1000 * Outside dim reduced by 10mm by every 5t increment. For example 46t - 1990 x 990	41mm to 100MM	Yes	Yes	Yes	Yes
2000 x 1120 * Outside dim reduced by 10mm by every 5t increment. For example 46t - 1990 x 1110	41mm to 100MM	Yes	Yes	Yes	NA
2000 X 1300* These plates are subject to additional grinding charges	1.2mm to 20mm	Yes	Yes	Yes	NA
2000 X 1800* These plates are subject to additional grinding charges	5mm to 30mm	Yes	Yes	Yes	NA
2000 X 2000 * These plates are subject to additional grinding charges	2mm - 20mm	Yes	Yes	Yes	NA

Note: Sizes listed are stock sizes and for reference. For customer sizes please email: info@neftec.jp

Notes and Recommend Use

Standard production dimensions	Thicknesses	Material Grade				
Sizes in Metric		PC70	РС70Н	PC30	PC40	
420 x 2000	31mm to 90mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that requires further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot- press dies.	Rated at 2400°c. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	NA	
1000 x 1000	1mm to 31mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that requires further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot- press dies.	Rated at 2400°c. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	Rated at 2400°c with high flexural strength. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Robotics Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	

1120 x 1120	1.2mm to 20mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that requires further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot- press dies.	Rated at 2400°c. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	Rated at 2400°c with high flexural strength. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Robotics Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.
1280 x 1280	2mm to 13mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that requires further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot- press dies.	Rated at 2400°c. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	Rated at 2400°c with high flexural strength. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Robotics Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.
2000 x 1000	0.6mm to 30mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that requires further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot- press dies.	Special order	Special order
2000 x 1000	2mm to 6mm	NA	NA	NA	NA
2000 x 1000	0.6/0.8mm to 5mm	NA	NA	NA	NA
Special order sizes					
250 x 2200	75mm to 90mm	C/C Rollers - Steel Industry Applications	C/C Rollers - Steel Industry Applications	C/C Rollers - Steel Industry Applications, PECV, LED, Silicon Ingot pots/covers	NA
1000 x 500	31mm to 80mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fixtures, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that require further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot-press dies.	C/C Rollers - Steel Industry Applications, PECV, LED, Silicon Ingot pots/covers	NA
1000 x 1000	26mm to 31mm	General purpose for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fixtures, Structural, PECVD and Load bearing.	High density and strength suited for Heat- treatment that require further strength. Ideal for precision machining, PECVD, load bearing, high strength nuts/bolts and hot-press dies.	Rated at 2400°c. Ideal for all high- temperature applications, Including Machined products (threads/nuts), Jigs, Fans, Fixtures, Trays, Structural, PECVD, Heating Elements.	Special order
1000 x 1000	0.6/0.8mm only	NA	NA	Furnace lining, Insulation protection, trays Only available in 2-6mm thickness.	NA

Note: Sizes listed are stock sizes and for reference. For customer sizes please email: info@neftec.jp