

US Units

Material type		Temperature limit		Flexural strength	Compressive strength	Young's modulus	Rockwell Hardness (HR)			Hardness-Brinell HB 5/62,5	Bulk density	Porosity	Coefficient of thermal expansion (⊥ to the pressing direction)		Thermal-conductivity			
		Oxidizing atmosphere	Inert atmosphere				psi	psi	psi x 10 ⁶				5/40	5/100		5/150	68 – 392 °F 392 – 1112 °F	
																	°F	°F
-FH27S-	carbon graphite	662	2192	4350	13050	1.31	105	-	-	25	1.55	15	1.9	2.6	7.5			
-FH42-	carbon graphite	662	2192	7250	21750	2.61	-	95	-	40	1.65	11	2.2	2.4	6.4			
-FH42Y3-	carbon graphite	662	2192	7975	24650	2.61	-	110	-	60	1.65	10	2.3	2.8	7.0			
-FH44Y2-	carbon graphite	662	2192	6525	18850	2.03	-	105	-	50	1.65	8	1.9	2.6	9.9			
-FH82Y5-	carbon graphite	662	2192	10150	36250	3.48	-	-	110	80	1.80	*	2.4	2.7	5.8			
-FE45S-	electrographite	932	4532	5800	14500	1.45	105	-	-	25	1.70	15	2.0	2.3	37.7			
-FE45Y2-	electrographite	932	4532	5800	14500	1.74	-	85	-	30	1.70	8	2.0	2.3	37.7			
-FE65-	electrographite salt impregnated	1202	1832	6525	15950	1.89	110	-	-	30	1.80	8	1.7	2.3	37.7			
-FE679Q-	electrographite salt impregnated	1202	1832	10150	21025	2.18	-	110	-	60	1.85	8	2.2	2.8	26.1			
-FE679PS-	electrographite salt impregnated	932	1472	13050	30450	2.90	-	-	115	95	2.20	2	2.3	2.9	26.1			
-FH27Z(H)2-	carbon graphite resin impregnated	392 (500)	392 (500)	6525	24650	1.74	-	105	-	50	1.70	3	2.3	-	7.5			
-FH42Z(H)2-	carbon graphite resin impregnated	392 (500)	392 (500)	8700	30450	2.61	-	115	-	75	1.75	2	2.6	-	6.4			
-FH42Z(H)5-	carbon graphite resin impregnated	392 (500)	392 (500)	8700	30450	2.61	-	115	-	75	1.75	*	2.6	-	6.4			
-FH44Z(H)2-	carbon graphite resin impregnated	392 (500)	392 (500)	7250	29000	2.03	-	105	-	50	1.70	2	2.5	-	7.5			
-FH44Z(H)5-	carbon graphite resin impregnated	392 (500)	392 (500)	7250	29000	2.03	-	105	-	50	1.70	*	2.5	-	7.5			
-FH82Z(H)2-	carbon graphite resin impregnated	392 (500)	392 (500)	10875	36250	3.48	-	-	110	80	1.80	2	2.6	-	4.6			
-FH82Z(H)5-	carbon graphite resin impregnated	392 (500)	392 (500)	10875	36250	3.48	-	-	110	80	1.80	*	2.6	-	4.6			
-FE45Z(H)2-	electrographite resin impregnated	392 (500)	392 (500)	6252	21750	1.74	-	100	-	45	1.75	3	2.3	-	37.7			
-FH71Z(H)5-	carbon graphite resin impregnated	392 (500)	392 (500)	10875	24650	3.92	-	105	-	50	2.80	*	3.9	-	3.5			
-FH42A-	carbon graphite antimony impregnated	662	1112	11600	36250	3.48	-	-	120	115	2.30	*	2.3	3.1	7.5			
-FH42B-	carbon graphite lead antimony impr.	446	446	11600	34800	3.19	-	-	120	115	2.80	1.5	2.3	-	10.4			
-FH44B-	carbon graphite lead antimony impr.	446	446	10150	29000	3.05	-	115	-	75	2.80	1.5	2.5	-	11.6			
-FH44C-	carbon graphite copper impregnated	662	1832	10875	30450	2.90	-	115	-	75	2.50	3	2.8	3.1	11.6			
-FH71A-	carbon graphite antimony impregnated	572	1112	12325	34800	5.08	-	-	120	115	3.30	*	3.6	-	5.2			
-FH82A-	carbon graphite antimony impregnated	662	1112	13050	50750	3.77	-	-	120	115	2.25	*	2.5	2.8	5.2			
-FE45A-	electrographite antimony impregnated	932	1112	9425	24650	2.32	-	115	-	75	2.50	1.5	2.5	2.8	38.9			
-FF46-	resin bonded	356	356	8700	18850	2.90	-	105	-	50	1.70	< 1	8.9	-	2.3			
-FF521-	resin bonded	356	356	8700	21025	2.90	-	105	-	50	1.75	< 1	12.8	-	2.9			
-FF541-	resin bonded	356	356	12325	33350	2.03	-	115	-	75	1.70	< 1	12.5	-	1.2			
-FF601-	resin bonded	356	356	7975	20300	2.18	-	90	-	35	1.75	< 1	11.1	-	1.2			
-FC941-	carbon graphite	662	2192	-	-	-	-	-	-	-	1.75	< 4	-	-	-			

These data are provided as typical values based on our experience. As with any raw material or manufacturing process, variations can occur. Consequently, such values are not guaranteed and are subject to change without notice.

* gas tightness inspection on request