

材料组 Material type		耐温性 Temperature limit		抗折强度 Flexural strength	抗压强度 Compressive strength	弹性模量 Young's modulus	洛氏硬度(HR) Rockwell Hardness (HR)			布氏硬度 Hardness Brinell	密度 Bulk density	气孔率 Porosity	热膨胀系数(压制方向) Coefficient of thermal expansion (to the pressing direction)		导热系数 Thermal conductivity	典型的应用领域 Typical application fields
		氧化环境 °C Oxidizing atmosphere °C	惰性环境 °C Inertatmosphere °C				5/40	5/100	5/150				20–200 °C x 10 ⁶ /K	200–600 °C x 10 ⁶ /K		
-FH27S-	碳石墨 carbon graphite	350	1200	30	90	9	105	—	—	25	1.55	15	3.5	4.6	13	适用于大尺寸的分瓣环和蒸汽接头密封环 Segmental seal rings and carbon steam joint seals in larger dimensions.
-FH42-	碳石墨 carbon graphite	350	1200	50	150	18	—	95	—	40	1.65	11	4.0	4.4	11	适用于湿密封介质中和低速干运转碳轴承 Wet running bearings in liquid media and under dry running conditions at low speed.
-FH42Y3-	碳石墨 carbon graphite	350	1200	55	150	18	—	110	—	60	1.65	10	4.2	5.0	12	适用于较高负载的液体介质中的轴承（例如化工泵和计量泵） Bearings in liquid media, subjected to higher loads (e. g. in chemical pumps and flow meters).
-FH44Y2-	碳石墨 carbon graphite	350	1200	45	130	14	—	105	—	50	1.65	8	3.5	4.6	17	适用于分瓣环，密封整环、旋转刮片和阀门座。 Segmental and single seal rings, rotary vanes and valve seats.
-FH82Y5-	碳石墨 carbon graphite	350	1200	70	250	24	—	—	110	80	1.80	*	4.4	4.8	10	适用于高负载的滑动环和轴承，甚至在高温化学腐蚀性介质中 Sliding rings and bearings subjected to high loads, even at elevated temperatures and in chemically aggressive media.
-FE45S-	电化石墨 electrographite	500	2500	40	100	10	105.0	—	—	25	1.70	15	3.6	4.2	65	适用于分瓣环、端面整环、金属镶嵌环、推力轴承 Segmental seals, single end rings, metal-caged rings, end plates, thrust bearings.
-FE45Y2-	电化石墨 electrographite	500	2500	40	100	12	—	85	—	30	1.70	8	3.6	4.2	65	适用于分瓣环、迷宫式密封件和机械密封环；在高温和化学腐蚀性介质的干运转和湿运行的碳轴承 Segmental seals, labyrinth rings and mechanical seals; dry and wet running bearings used at high temperatures and in chemically aggressive media.
-FE709Y5-	电化石墨 electrographite	500	1200	110	260	28	—	—	125	120	2.0	*	5	6.0	42	适用于特殊用途、非金属、耐腐蚀性 Special applications, non-metallic and corrosion-resistant.
-FH27Z(H)2-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	45	170	12	—	105	—	50	1.70	3	4.2	—	13	适用于大尺寸的分瓣环和滑动环 Segmental real rings and sliding rings in larger dimensions.
-FH42Z(H)2-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	60	210	18	—	115	—	75	1.75	2	4.6	—	11	适用于在液体介质中高负荷的碳轴承、旋转泵和计量器的树脂碳刮片，以及滑动环和泵部件 Bearings subjected to higher loads and used in liquid media; resin impregnated vanes for rotary pumps and flow meters; sliding rings; pump components.
FH42Z(H)5-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	60	210	18	—	115	—	75	1.75	*	4.6	—	11	适用于高负荷的机械密封环和蒸汽接头密封环，高负荷的树脂推力轴承 Sealing rings for mechanical seals and steam joint seals applied at high load; resin impregnated highly loaded thrust bearings.
FH44Z(H)2-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	50	200	14	—	105	—	50	1.70	2	4.5	—	13	适用于在液体介质中的碳轴承；树脂浸渍行业干运转的干燥系统中的碳轴承、碳刮片、滑动环、旋转刮片及阀座 Carbon bearings applied in liquid media; dry running carbon bearings used in resin impregnated industrial drying units; carbon vanes; sliding rings; rotary vanes; valve seats
FH44Z(H)5-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	50	200	14	—	105	—	50	1.70	*	4.5	—	13	适用于滑动环，甚至在临界的润滑条件下；阀座 Sliding rings, even suited for applications with marginal lubrication; valve seats.
FH82Z(H)2-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	75	250	24	—	—	110	80	1.80	2	4.7	—	8	适用于机械密封环 Mechanical seals.
FH82Z(H)5-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	75	250	24	—	—	110	80	1.80	*	4.7	—	8	适用于高负荷的密封环和蒸汽接头机械密封环；用于高负荷的树脂浸渍推力轴承 Sealing rings for mechanical seals and steam joint seals applied at high load; resin impregnated highly loaded thrust bearings.
FE45Z(H)2-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	45	150	12	—	100	—	45	1.75	3	4.1	—	65	适用于分瓣环和机械密封环；干运转的碳轴承；有腐蚀性德介质的树脂浸渍碳轴承 Segmental and mechanical seals; dry running carbon bearings; resin impregnated carbon bearings used in aggressive media.
FH71Z(H)5-	浸树脂碳石墨 carbon graphite	200 (260)	200 (260)	75	170	27	—	105	—	50	2.80	*	7.0	—	6	适用于湿度极低的干运转密封环和轴承 Dry running seals and bearings, especially for extremely low humidity.
FH42A-	浸锑碳石墨 carbon graphite antimony impregnated	350	600	80	250	24	—	—	120	115	2.30	*	4.2	5.5	13	适用于液体介质和湿气体介质的高负荷的密封环和碳轴承 Highly loaded sealing rings and carbon bearings applied in liquids and liquefied gases.
FH44C-	浸铜碳石墨 carbon graphite copper impregnated	350	1000	75	210	20	—	115	—	75	2.50	3	5.0	5.5	20	适用于机械密封环和碳轴承 Mechanical seals; carbon bearings.
FH71A-	浸锑碳石墨 carbon graphite antimony impregnated	300	600	85	240	35	—	—	120	115	3.30	*	6.4	—	9	适用于在极低湿度河湿气体介质下干运转浸锑密封环和轴承 Dry running seals and bearings, especially for extremely low humidity antimony impregnated and liquefied gases.
FH82A-	浸锑碳石墨 carbon graphite antimony impregnated	350	600	90	350	26	—	—	120	115	2.25	*	4.5	5.0	9	适用于高负荷甚至高温的机械密封环；高负责浸锑推力轴承 Highly loaded mechanical seals, even at high temperatures; antimony impregnated highly loaded thrust bearings.
FE45A-	浸锑碳石墨 carbon graphite antimony impregnated	500	600	65	170	16	—	115	—	75	2.50	*	4.5	5.0	67	适用于高温下的机械密封环和碳轴承 Carbon bearings and mechanical seals applied at high temperatures.
FE65-	浸盐电化石墨 electrographite salt impregnated	600	1000	45	110	13	110	—	—	30	1.80	8	3.1	4.2	65	适用于高温下的干运转碳刮片和轴承 Dry running carbon vanes and bearings applied at high temperatures.
FE679Q-	浸盐电化石墨 electrographite salt impregnated	600	1000	70	145	15	—	110	—	60	1.85	8	4.0	5.0	45	适用于干运转碳刮片 Dry running vanes.
FE679PS-	浸盐电化石墨 electrographite salt impregnated	500	800	90	210	20	—	—	115	95	2.20	2	4.1	5.2	45	适用于高速干运转的碳刮片 Dry running vanes subjected to high rotational speed.
FF521-	合成树脂粘结碳材料 resin bonded carbon	180	180	60	145	20	—	105	—	50	1.75	1	23.0	—	5	适用于压制成型的批量小尺寸机械密封环，轴承和泵的组件 Small parts pressed to size in series production such as mechanical seals, bearings, and components used in pumps.
FF541-	合成树脂粘结碳材料 resin bonded carbon	180	180	85	230	14	—	115	—	75	1.70	1	22.5	—	2	适用于压制成型的批量小尺寸机械密封环，轴承和泵的组件 Small parts pressed to size in series production such as mechanical seals, bearings, and components used in pumps.
FC941-	碳石墨 carbon graphite	350	1200	—	—	—	—	—	—	—	1.75	3	—	—	—	适用于设定温度下有化学腐蚀性介质的压制成型的批量小尺寸产品 Small parts pressed to size in series production evaluated temperatures and in chemical aggressive media.
SiC30-	碳化硅 - 石墨复合材料 silicon carbide / graphite composite material	500	2300	140	500	140	—	—	—	—	2.65	—	3.0	4.0	125	请参阅宣传册“SiC30 - 碳化硅 - 石墨复合材料”。 See our brochure „SiC30 - Silicon Carbide / Graphite Composite Material“.

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