



Carbon bearings, seals and components for very high temperature and hostile environments

Material Specification

Grade	Specific Gravity (g/cm ³)	Specific Resistance (μΩm)	Flexural Strength (Kg/cm ²) (Mpa)		Shore Hardness (RH)	CTE *	Thermal Conductivity (kcal) (W/mk)		Operating Temperature (°C)	Application
ETT	1-8	11	310	30.0	55	2-2	118	125	† -50 to +600	Bearings low loads and speeds
KE25	1-75	8	250	24.5	35	3-3	150	174	† -50 to +600	Very high temperature components
KE K1	1-85	11	500	49.0	58	5-5	100	116	† -50 to +600	Bearings high loads and speeds
KE Hz2	1-9	20	360	35.0	45	3-7	24	28	† -50 to +600	Seals

All carbon products are produced to customers specific requirements. Other grades can be supplied upon request.

* CTE = coefficient of thermal expansion.

† These materials can operate up to 2000°C but oxidation will start to occur at 500°C.

This data gives typical values and are not intended to represent specification. Their aim is to guide the user towards a material choice.

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The suitability of the proposed use of any of the products for any particular purpose is the responsibility of the customer.

Bowman International Limited reserve the right to change specifications without prior notice E & OE