

DuPont™ Vespel® ASB 5000 Series Parts

Graphite and Carbon Graphite Series

Graphite Series

The DuPont™ Vespel® ASB parts graphite series offers high thermal oxidative resistance. By coupling the high temperature, self-lubricating properties of mechanical graphite with the appropriate selection of metal housings, DuPont can design a durable assembly that is easy to install and matches the CTE of the mating components.

Carbon Graphite Series

The DuPont™ Vespel® ASB parts carbon graphite series offers good wear life under relatively high compressive load and temperatures. Coupling the self-lubricity and compressive strength of mechanical carbon graphite with the appropriate selection of metal housings enables DuPont to design a durable assembly that is easy to install and that matches the CTE of the mating components.

The variety of available grades allows DuPont to offer the most appropriate material based upon the application temperatures, desired environment, load requirements and other operating conditions.

Typical Properties of Graphite Grades									
Grade	Thermal				Mechanical				
	Temperature Limit				Thermal Conductivity		Ultimate Compressive Strength		Hardness
	Oxidizing Atmosphere		Neutral Atmosphere						
°F	°C	°F	°C	Btu/hr/ft²°F	W/m K	ksi	MPa	Shore Scheleroscope C	
5503	1000	540	1500	815	32	57	23.0	155	90
5700	1000	540	1900	1040	45	80	30.0	205	90
5720	1000	540	1500	815	35	61	22.5	155	75
5730	1250	680	1500	815	15	25	17.0	120	70
5740	1250	680	1350	730	45	80	33.0	230	90
5750	1200	650	1500	815	40	70	8.5	60	75
Typical Properties of Carbon Graphite Grades									
5505	700	370	2000	1095	8	14	33.0	225	85
5710	500	260	500	260	5	9	34.0	235	95
5760	850	450	1500	815	8	15	45.0	310	95
5770	550	290	550	290	5	9	35.0	240	90
5780	600	315	1200	650	5	9	31.0	215	95
5800	450	230	500	260	7	12	28.0	195	70
5810	600	315	1500	815	5	9	30.0	205	85

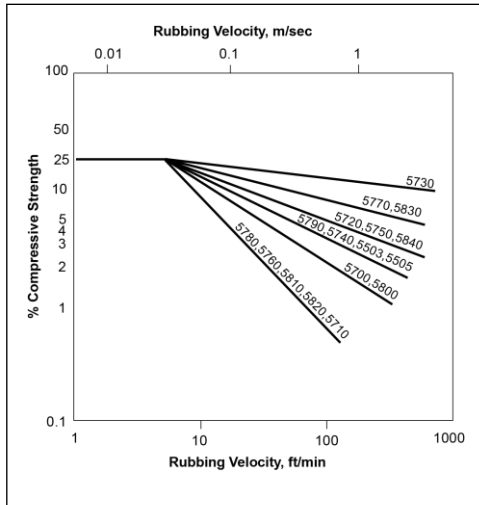


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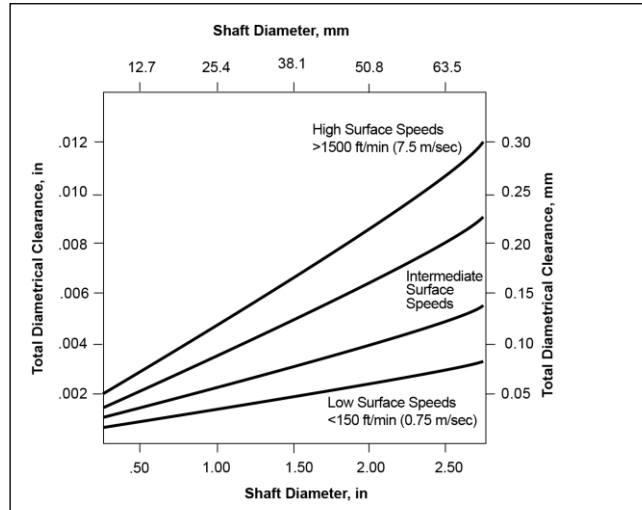
Thermal					Mechanical				
Grade	Temperature Limit				Thermal Conductivity		Ultimate Compressive Strength		Hardness
	Oxidizing Atmosphere		Neutral Atmosphere						
	°F	°C	°F	°C	Btu/hr/ft²°F	W/m K	ksi	MPa	Shore Scheleroscope C
5820	600	315	1500	815	4	7	25.0	170	85
5830	600	315	1500	815	5	9	40.0	275	85
5840	550	290	550	290	7	12	27.0	185	65

ASB CG Metallic-Supported Composites

Recommended Maximum Dynamic Loads



Recommended Shaft Clearance for Dry Running



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