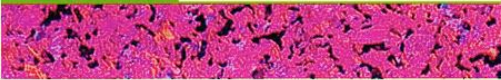


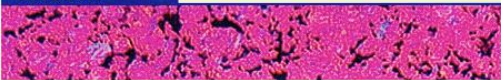
RINGSDORFF® Specialty Graphite Grades for EDM

R 8340



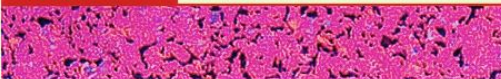
Efficient grade for roughing

R 8500X



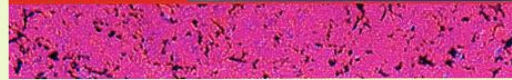
Grade for roughing and prefinishing

R 8500



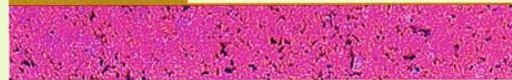
Universal grade for toolmakers

R 8510



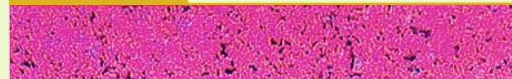
Wear resistant fine grain graphite for demanding applications

R 8650

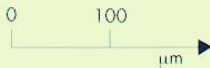


Finishing grade for highest accuracy

R 8710



Premium finishing grade to perform high quality EDM tasks with high removal rates



Physical Properties

		R 8340	R 8500X	R 8500	R 8510	R8650	R 8710
Density	g/cm ³	1.72	1.75	1.77	1.83	1.84	1.88
Open Porosity	Vol.-%	15	14	13	10	10	10
Average Grain Size	μm	15	12	10	10	7	3
Average Pore Size	μm	2.0	2.0	1.5	1.5	0.8	0.6
Permeability	x 10 ⁻² cm ² /sec	15	15	10	4	3	1
Rockwell Hardness		80	80	70	95	95	110
		HR 10/100	HR 5/100	HR 5/100	HR 5/100	HR 5/100	HR 5/100
Flexural Strength	MPa	45	43	50	60	65	85
Young's Modulus	GPa	10.5	10	10.5	11.5	12.5	13.5
Electrical resistivity	μΩm	12	15	14	13	14	13
Thermal Conductivity	W m ⁻¹ K ⁻¹	90	80	80	100	90	100
Thermal Exp. (293.15 - 473.15 K)	x 10 ⁻⁶ K ⁻¹	2.9	3.8	3.9	4.0	3.9	4.7
Ash Value	max. %	0.02	0.02	0.02	0.02	0.02	0.02

Average values.

Broad Base. Best Solutions.

