## **RINGSDORFF® Specialty Graphite Grades** for EDM



Efficient grade for roughing



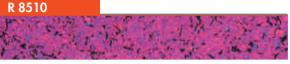
Grade for roughing and prefinishing



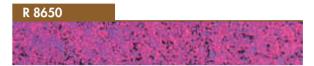
100

μm

Universal grade for toolmakers



Wear resistant fine grain graphite for demanding applications



Finishing grade for highest accuracy



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/cm³	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	$\times 10^{-2}  \text{cm}^2/\text{sec}$	15	15	10	4	3	1	
Rockwell Hardness		80	80	70	95	95	110	
		HR 10/100	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.	x 10-6 K-1	2.9	3.8	3.9	4.0	3.9	4.7	
(293.15 - 473.15 K)								
Ash Value	max. %	0.02	0.02	0.02	0.02	0.02	0.02	

Average values.



## **Dimension List of**

## **EDM RINGSDORFF® Iso-Graphites**

Dimension List								
R 8340	R 8500X R 8500	R 8510	R 8650	R 8710				
1550 x 410 x 200	1230 x 500 x 400	1230 x 1030 x 330	1230 x 480 x 260	610 x 390 x 190				
1230 × 500 × 400	610 x 500 x 400	1230 x 500 x 400	610 x 480 x 260					
610 x 500 x 400		610 x 500 x 400						
Ø 150 x 1230 Ø 180 x 1230 Ø 200 x 1230 Ø 225 x 1230 Ø 250 x 1230 Ø 280 x 1230 Ø 320 x 1230 Ø 350 x 1230 Ø 380 x 1230 Ø 420 x 1230			Prepared electrode blan clamping systems on rec					

We do not charge for cutting standard blocks if no off-cut material is generated. The dimensions shown above are minimum sizes in mm.

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