

Physical Properties						
	Unit	R 4340	R 4500	R 4550	R 4810	R 4820
Average Grain Size	µm	15	10	10	20	20
Density	g/cm ³	1.72	1.77	1.83	1.83	1.82
Open Porosity	Vol.-%	15	13	10	10	10
Average Pore Size	µm	2	1.5	1.5	3	2,5
Permeability	cm ² /sec	0.15	0.1	0.04	0.2	0.1
Rockwell Hardness	HR 10/100	80			95	100
Rockwell Hardness	HR 5/100		70	95		
Specific Electrical Resistivity	µΩm	12	14	13	10.5	11.5
Flexural Strength	MPa	45	50	60	50	45
Compressive Strength	MPa	90	120	125	105	105
Young's Modulus	GPa	10.5	10.5	11.5	10	11
Thermal Conductivity	W/mK	90	80	100	135	120
Thermal Expansion 20-200 °C	10 ⁻⁶ K ⁻¹	2.9	3.9	4.0	4.1	4.2
Ash Value	ppm	200	200	20	50	50

Dimension List					
	R 4340	R 4500	R 4550	R 4810	R 4820
□	1550 x 410 x 200	1230 x 500 x 400	1230 x 500 x 400	1230 x 510 x 330	1230 x 510 x 330
□	1230 x 500 x 400	610 x 500 x 400	610 x 500 x 400	610 x 510 x 330	610 x 510 x 330
□	610 x 500 x 400				

Dimension List Ø R 4340				
Ø	150 x 1230	200 x 1230	320 x 1230	420 x 1230
Ø	180 x 1230	225 x 1230	350 x 1230	
Ø		250 x 1230	380 x 1230	
Ø		280 x 1230		

The dimensions shown above are minimum sizes in mm.

Recommendations for Specific Uses						
Alloy	Configuration	R 4340	R 4500	R 4550	R 4810	R 4820
	Round	•	•			
CuZn	Strip			•		•
	Rod			•		•
	Round	•	•		•	
CuSn	Strip			•	•	•
	Rod			•	•	•
	Round			•		•
CuNiZn	Strip			•		•
	Rod			•		•
	Round			•		•
CuNi	Strip			•		•
	Rod			•		•
	Round	•	•	•	•	•
Ag-Alloys	Strip	•	•	•	•	•
	Rod	•	•	•	•	•
	Round	•	•	•	•	•
Au-Alloys	Strip	•	•	•	•	•
	Rod	•	•	•	•	•
GG/GGG		•	•			

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