



Mechanical Carbon & Graphite Grade Comparisons

Property

		<u>JP 600</u>	<u>JP 645</u>	<u>JP 900</u>	<u>JP 932</u>	<u>JP 933</u>	<u>JP 1000</u>	<u>JP 1300</u>	<u>JP 1345</u>
	<u>Units</u>								
Density	g/cm ³	1.68	1.79	1.82	1.83	1.85	1.90	1.72	1.86
Average Grain Size	μm	29	50	10	9	10	5	16	15
Resistivity	μ ohm.cm	5320	5100	1200	1220	1200	1600	2540	3000
Flexural Strength	Mpa	56	90	50	55	50	75	58	74
Compressive Strength	Mpa	117	250	130	119	130	210	165	193
Tensile Strength	Mpa		60	32	34	32	50		50
Modulus of Elasticity	Gpa		27.5	14	11.5	14	16		12
Hardness	Shore	88	95	65	68	65	80	72	86
Ash	%	4.5%	5%	<0.1%	0.2%		<0.1%	0.2%	<1%
Thermal Conductivity	W/m°C		7.5	85	106	85	80	18	12
C.T.E.	x 10 ⁻⁶ /°C		5.8	5.2	5.6	5.2	6	5.8	4.2
Treated for High Oxidation Resistance		No	No	No	Yes	Yes	No	No	No
Sizes Available:	Rectangles	5.8"x7"x24"	6"x7"x23"	12"x24"x36"	8"x12"x12"	8"x12"x12"	6"x12"x24"	12"x24"x72"	5.1"x12"x17.7"

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