

● Multi-hole series

Physical properties Unit Test method		Product name Component	MH136	MH215 (EXP558)	MH683 (EXP490)	
			Al ₂ O ₃ 99.8%	Al ₂ O ₃ 99.6%	Al ₂ O ₃ 80%	
Ceramic Properties	Bulk Specific Gravity JIS R2205		3.9	3.2	2.3	
	Porosity(%) JIS R2205		0	20	30	
	Bending Strength(MPa) *(1) JIS R1601		310	103	28	
	Coefficient of Thermal Expansion(x10 ⁻⁶) 100→1000°C JIS R1618		7.8	5.0	5.5	
	Thermal Conductivity 20°C(W/(m · k)) JIS R1611		34.3	18.1	2.5	
	Specific Heat(J/(kg · K)) JIS R1611		0.78x 10 ³	0.62x 10 ³	0.71x 10 ³	
Independent Evaluation	Thermal Shock(°C)		450	400	600	
	Thermal Shock Limit Temperature(°C)		560	460	690	
	High temperature Bent(mm)	1300°C		-	0.1	0.1
		1400°C		0.5	0.8	0.4
1500°C			5.3	12.9	1.2	
Characteristic			Highly dense	Semi-porous	Mullite, porous	

*The data are representative values, not guaranteed values.

*Physical property data values do not include hole geometry.

*(1) 3-point bending test