

PRODUCTS SPECIFICATIONS
TPS-104 REV. 1

2010/5/1

		CERAMIC BALL			HIGH ALUMINA BALL			
CHEMICAL COMPOSITION	Al ₂ O ₃	13.0 wt. % Min.			99.3 wt. % Min.			
	SiO ₂	80.0 wt. % Max.			0.30 wt. % Max.			
	Fe ₂ O ₃	1.0 wt. % Max.						
	TiO ₂	0.5 wt. % Max.						
	CaO	0.5 wt. % Max.						
	MgO	0.5 wt. % Max.						
	Na ₂ O	2.5wt.%Max.			*In the case of product 1~2mm & 2~3mm, MgO - 0.1wt%Max. is added to above.			
	K ₂ O	3.5wt.%Max. } 5.0wt% Max.						
PHYSICAL PROPERTIES	POROSITY	1.0 wt. % Max.			15 wt. % Max.			
	WATER ABSORPTION	0.5 wt. % Max.			5 wt. % Max.			
	REFRACTORINESS SK	SK 12 (1350°C)			SK 35 (1790°C)			
CRUSHING STRENGTH	SIZE	Kgf			SIZE	Kgf		
	1/8"	Min. 30 Kgf			1~2mm	Max. 120 Kgf		
	1/4"	85			2~3mm	120		
	3/8"	160			3/16"	Min. 100 Kgf		
	1/2"	200			1/4"	150		
	3/4"	450			5/16"	300		
	1"	600			3/8"	600		
					1/2"	700		
					3/4"	1400		
					1"	1500		
		* We guarantee this numerical value to 95% of amount of product.						
SIZE TOLERANCE & BULK DENSITY	SIZE	m/m	RANGE	BULK DENSITY	SIZE	m/m	RANGE	BULK DENSITY
	1/8"	3.2	±1.0	1.43±0.15	1~2mm	1~2	1.0~2.0	2.18±0.15
	1/4"	6.4	±1.0	1.40±0.15	2~3mm	2~3	2.0~3.0	2.13±0.15
	3/8"	9.3	±1.5	1.38±0.15	3/16"	4.5	4.0~5.5	2.05±0.15
	1/2"	12.7	±1.5	1.38±0.15	1/4"	6.4	5.5~7.0	2.05±0.15
	3/4"	19.1	±1.5	1.35±0.15	5/16"	8.0	7.0~9.0	2.00±0.15
	1"	25.4	±1.5	1.35±0.15	3/8"	11.0	10.0~12.0	2.00±0.15
					1/2"	13.0	12.0~14.0	2.00±0.15
					3/4"	19.0	18.0~20.0	1.95±0.15
					1"	25.0	23.5~26.5	1.95±0.15

* ABOVE PRODUCTS SPECIFICAITONS MAY BE CHANGED WITHOUT NOTICE IN ADVANCE.