



**C1, Private Industrial Estate,
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PP Pall Rings:

Category	Parameter	Specification / Value
1. Operating Conditions	Liquid/ gases	Strong Acids except HF
	Acid Concentration Range	93% – 98.5%
	Maximum Liquid Temperature	95 °C
	Gas Composition	SO₃ + SO₂ = 10.5% + 0.8%
	Maximum Gas Temperature	300 °C
2. Chemical Composition (Ceramic)	SiO ₂	65% – 75%
	Al ₂ O ₃	20% – 30%
	Fe ₂ O ₃ + TiO ₂	1% – 3%
	K ₂ O + Na ₂ O	2% – 4%
	CaO + MgO	0.5% – 1.5%
3. Physical Properties	Water Absorption	< 1% (as per IS 7087)
	Resistance to Acid	> 99.5% by mass

Pall Rings					
Size (mm)	No. of pieces per M ³ ±10%	Bulk Density (kg/m ³)	Void Factor (%)	Surface Area (m ² /m ³)	Packing Factor
25	49773	145–170	90–93%	210–250	410
38	14708	120–150	90–92%	140–170	300
50	6374	95–125	90–92%	100–120	220
75	1871	70–90	88–90%	65–80	150
90	1162	55–75	87–89%	45–60	120