



National Petrochemical Company
Petrochemical Research & Technology Company

SAZ CATALYST PLANT

DOCUMENT NUMBER

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Filter Centrifuge Data Sheet

Feed Characteristic	Liquid Phase		Components	Mass Density kg/m ³		Viscosity		
		Hexane, H ₂ O		~901		~0.4713 cP		
Feed Characteristic	Solid Phase		Components	Specific Gravity kg/m ³		Solid Mass	Variation in Feed Slurry	
	Titanium Hydroxide, NaCl		$\rho_{\text{bulk}} = 796.4$	$\rho_{\text{solid}} \geq 1201$		20 ~ 30	W/V Max. insoluble	W/V Min. insoluble
							0.3 kg/lit	0.05 kg/lit
Particle Size Distribution	Min and Max Size			Mean		Comment		
	0.5 ~ 200 μ			24 μ		about 10% less than 10 μ		
Condition	pH	Corrosive	Slurry Flammability	Vapor Pressure at Operation Temperature	Slurry Feed Temperature	Feed Rate		
	7 \pm 1.5	YES	YES, During the operation, due to the flammable nature of the mixture, there should be no leakage at all.	0.2~0.3 bara	-10 ~ 50°C	3 m ³ /Batch The duration of time used in each batch is between 0.5 hr and 24 hr. This time also depends on the flow rate entering the equipment.		
Product Requirement	Max. insoluble solid in discharge liquid			Max. liquid accepted in cake solids			Machine Requirement	Motor Enclosure
	~0 % insoluble			To prevent waste as much as possible				Flame Proof zone1