

Compacts based on pyrogenically produced silicon dioxide

Abstract

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Compacts based on pyrogenically produced silicon dioxide and having the following physical and chemical characteristics:

10	Outer diameter	0.8 - 20 mm
	BET surface area	30 - 400 m ² /g
	Pore volume	0.5 - 1.3 ml/g
	Breaking strength	10 to 250 N
	Composition	> 99.8 wt.% SiO ₂
15	Other constituents	< 0.2 wt.%
	Abrasion	< 5 wt.%
	Apparent weight	350 - 750 g/l.

are produced in that pyrogenically produced silicon dioxide
 20 is homogenised with methyl cellulose, microwax and polyethylene glycol with addition of water, dried at a temperature of 80 - 150°C and comminuted to a powder, optionally the powder is compressed into compacts, and heat-treated at a temperature of 400 to 1200°C for a time
 25 of 0.5 to 8 hours.

These compacts can be used as catalysts or catalyst carriers in vinyl acetate monomer production and ethylene hydration.

Figure 1