

# SILICA GEL FLASH CHROMATOGRAPHY

## Typical Column Dimensions, etc.

column diameter, mm	vol of eluant, <sup>a</sup> mL	sample: typical loading (mg)		typical fraction size, mL
		$\Delta R_f \geq 0.2$	$\Delta R_f \geq 0.1$	
10	100	100	40	5
20	200	400	160	10
30	400	900	360	20
40	600	1600	600	30
50	1000	2500	1000	50

<sup>a</sup> Typical volume of eluant required for packing and elution.

{ Ref.: JOC 43, 2923-2925 (1978) }

## ALUMINA : Activity Grades

From The Chemist's Companion

374. Chromatography

### B. Activity Grades of Alumina

Acidic, basic or neutral alumina can be prepared in various activity grades (I to V) according to the Brockmann scale, by addition of H<sub>2</sub>O to Grade I (prepared by heating alumina at 400 to 450° until no more H<sub>2</sub>O is lost).

→ Water added (wt. %):	0	3	6	10	15
→ Activity grade:	I	II	III	IV	V
R <sub>f</sub> (p-aminoazobenzene):	0.0	0.13	0.25	0.45	0.55