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Relationship between retention factor and carbon loading

	Retention factor	Carbon loading (%)	Specific surface area[b] (m^2/g)
SunShell C18, 2.6 µm	10.4	7.3	125
Company S C18, 2.7 µm	9.7	8.0	133
Company A C18 EC, 2.7 µm	9.0	8.5	135
Company W C18, 2.7 µm	7.7	7.3	113
Company T C18, 2.7 µm	7.4	8.8	130
Company P C18, 2.6 µm	5.4	4.9	102

a. Retention factor of amylbenzene, mobile phase; methanol:water=75:25, 40 ℃,
b. Measured using C18 materials sintered at 600 degree Celsius for 8 hours.

Both Sunniest end-capping and Silanol Activity Control

Despite not having the highest Carbon Loading (%) the Chromanik SunShell 2.6um column had the highest Retention Factor. The SunShell C18 was the most retentive as a result of the Silanol Activity Control Technology.