

Sample: 8358' : TS C7859

Rock Name:

Argillaceous sandstone

Thin Section:

An optical estimate of the constituents gives the following:

	<u>%</u>
Quartz	85
Lithic material	5- 7
Kaolinite (?dickite)	1
Carbonate	Trace -1
Tourmaline	Trace
Zircon	Rare
Mica	Trace
Voids	7
Feldspar	Trace -1
Opaques	Rare
Rutile	Rare

Diagenetic features dominate the texture of this rock and details of sedimentary features (packing, sorting, etc.) have been obscured by both physical and chemical processes.

The single quartz grains which constitute the greater part of the rock have long, concavo-convex and even sutured boundaries which are the result of compression, solution and re-deposition of silica. They are commonly in the 0.1-0.4 mm size range. Many quartz 'grains' may possibly consist entirely of authigenic material. Certainly some grains have rational crystal faces (usually against voids) and yet show no evidence of a core of genuine detrital quartz. Visible overgrowth rims are the exception rather than the rule. The sorting of the original detritus is likely to have been better than that of the partially recrystallised material now present and hence was good. No evidence of the sphericity and roundness of the original grains remains.