

Western Belt granite of the Peninsular Malaysia

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The Western Belt granite is a huge mountain range along the western side of Peninsular Malaysia. The country rocks penetrated by the granites are predominantly isoclinally folded phyllitic Lower Paleozoic metasedimentary rocks including marble, and less strongly folded Upper Paleozoic formations. The granites are generally coarse to very coarse grained, primary texture, K-feldspar porphyritic biotite muscovite granite. Amphibole bearing granite is relatively rare and restricted to the northern part of the batholith. Mineralogical classification indicates that these granites are monzogranite to syenogranite with subordinate granodiorite. They are mildly metaluminous (ACNK = 0.92) to peraluminous (ACNK = 1.18). Although the granites in many aspects, are comparable to the 'S' type granites of the Lachlan Fold Belt, Australia, they also have some differences such as (1) occurrence of primary sphene, (2) the ACNK value in which the trend (with increasing SiO_2) is reverse to those observed in the 'S' type granite of the

Lachlan Fold Belt and (3) the behaviour of P in the Western Belt granite magmas contrast to the behaviour of P in the 'S' type magma of the Lachlan Fold Belt.
