

R. 319*TR2-169-170***DORSET TIN DREDGING****MONAZITE PRODUCT**

A sample of monazite and cassiterite with ilmenite, zircon and magnetite was submitted to flotation tests in an attempt to produce a high grade concentrate comparable to the high grade obtainable by electro-magnetic separation.

The majority of the reagents used showed practically no selectivity, and best results showed a monazite content of 67%. The sample contained 53% of monazite. The reagents used together with various modifying reagents were: sulphonated castor oil, oleic acid, palmitic acid, sodium oleate, armac 12 D amine, Reagents AC 708, 710, 712 and 801.