

7R8-804

R. 452

8. IRON ORE FROM HAMPSHIRE

A sample of iron ore from Hampshire was submitted by Mr. A. Pearson for analyses and magnetic separation to determine the grade of concentrate obtainable by wet magnetic separation.

The sample for treatment by wet magnetic separation was ground to minus 350 mesh B.S. and magnetically separated with several stages of cleaning. The magnetic concentrate amounted to 86 per cent by weight.

Results

Per Cent	Sample	Magnetic Concentrate
Iron	65.9	69.1
Sulphur	0.08	0.03
Silica	1.94	0.44
Phosphorus	0.02	0.01
Titanium	0.08	0.09
Manganese	0.94	0.87
Aluminium	0.91	0.54
Vanadium	Nil	Nil

Ninety per cent of the iron reported in the magnetic concentrate.