

of quartz was present in the slide examined. The secondary minerals consist chiefly of fibrous and non-fibrous hornblende. Sericite occurs as dust-like particles in the feldspars. The structure of the rock is ophitic with the femic constituents filling the interstices of the lath-shaped labradorite crystals.

A chemical analysis of a typical specimen of hypersthene gabbro is as follows:—

SiO ₂	50.36	Na ₂ O.....	2.54
TiO ₂	0.90	K ₂ O.....	0.75
Al ₂ O ₃	13.63	H ₂ O+.....	0.05
Fe ₂ O ₃	2.22	H ₂ O-.....	0.71
FeO.....	8.38	P ₂ O ₅	0.07
MnO.....	0.20		
MgO.....	8.67		99.98
CaO.....	11.50	S.G.....	2.970

(M. F. Connor analyst).

The norm calculated from this analysis is as follows:—

Orthoclase.....	4.44
Albite.....	20.96
Anorthite.....	23.63
Diopside.....	26.97
Hypersthene.....	9.86
Olivine.....	8.16
Magnetite.....	3.24
Ilmenite.....	1.67
	98.93
Water.....	0.76
	99.69

Hence in the quantitative classification the rock is auvergnose.