Andradite: \((\text{Ca}_3\text{Fe}_2^3\text{Si}_3\text{O}_{12})\) : 98-71%
Pyrope: \((\text{Mg}_3\text{Al}_3\text{Si}_2\text{O}_{12})\) : 0-1%
Spessartine: \((\text{Mn}_3\text{Al}_2\text{Si}_3\text{O}_{12})\) : 0.2-1.5%
Grossulare: \((\text{Ca}_3\text{Al}_3\text{Si}_3\text{O}_{12})\) : 0.2-28%
Almandine: \((\text{Fe}_3^3\text{Al}_3\text{Si}_3\text{O}_{12})\) : -

Optical properties, density and lattice constants were determined and are in good agreement with each other.

In order to determine the application potential of the garnetite of Seritos a sample was tested as industrial mineral by the Battel method.

The possibility to use the garnetite as industrial mineral is discussed.

**SUBMARINE HYDROTHERMAL ALTERATION OF BASALTS AND DOLERITES (ZEOLITIC FACIES) IN THE INTERMEDIATE UNIT OF NORTHERN ARGOLIS (PELOPONNESUS, GREECE)**

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In northern Argolis (N. of Epidaurus) in the inner part of Hellenides, the ophiolitic complex is composed of three superposed tectonic units: a) The Lower which is a sedimentary ophiolitic 'mélange'; b) An Intermediate volcanic unit and c) An Upper ophiolitic tectonic 'mélange'.

The intermediate volcanic unit is composed of a lower massive dolerite and an upper basaltic pillow-lava, both of MORB tholeitic affinity.

In this study the examination of secondary mineralogical assemblages shows a probable hydrothermal origin. This metamorphism is characterized by the remplacement of the original minerals by secondary minerals such as: smectites, celadonites, albites, chlorites, sphene, \((\text{Na, Ca})\) zeolites, ferriferous pumpellyites, which also appear in fractures, or as fillings of voids.

These mineralogical assemblages are the result of a submarine hydrothermal alteration with temperatures between 190 to 200°C and low pressures \((P \ll 1 \text{ Kb})\).

These thermodynamic conditions are characterized by the association of laumontite-ferriferous pumpellyite in the dolerite, also the presence of smectites-celadonites associated with various \((\text{Na, Ca})\) zeolites in the basaltic pillow-lavas, suggest temperatures less than those in dolerites.