Algorithm for calculation of non-cotectic proportions in plagioclase-chromite cumulates

**Crystallization in magma**

- **Thickness of a basal layer of magma (m)**: 100
- **Degree of Chr-only crystallization (%)**: 0.4
- **Degree of Chr+Plag crystallization (%)**: 1
- **Total degree of crystallization (proportion of phenocrysts in magma) (%)**: 1.4
- **Cotectic proportion of Chr in Chr-Plag cotectic (%)**: 0.5
- **Cotectic proportion of Plag in Chr-Plag cotectic (%)**: 99.5
- **Proportion of Chr produced by Chr-only crystallization in a basal layer (%)**: 0.4
- **Proportion of Chr+Plag produced by cotectic crystallization in a basal layer (%)**: 1
- **Proportion of Chr produced by cotectic crystallization in a basal layer (%)**: 0.0050
- **Proportion of Plag produced by cotectic crystallization in a basal layer (%)**: 0.9950
- **Total proportion of Chr in a basal layer (%)**: 0.4050
- **Total proportion of Plag in a basal layer (%)**: 0.9950
- **Total proportion of Chr+Plag phenocrysts in a basal layer (%)**: 1.4

**Formation of a mushy layer**

- **Density of random crystal packing in a mushy layer (%)**: 0.7
- **Thickness of a mushy layer (m)**: 2.000
- **Relative proportion of Chr in a mushy layer (%)**: 28.93
- **Relative proportion of Plag in a mushy layer (%)**: 71.07

**Formation of a solid cumulate layer**

- **Proportion of Chr in solid cumulate (%)**: 20.40
- **Proportion of Plag in solid cumulate (%)**: 79.60
- **Totally solid cumulate (%)**: 100

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