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# Grosulár a diopsid v kryštalických vápencoch z lokality Čučma - Čierna baňa (Slovenská republika)

## Grossular and diopside in crystalline limestone from the locality Čučma - Čierna baňa (Slovak Republic)

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### Abstract

The identified mineral association in the crystalline limestones from the manganese locality Čučma - Čierna baňa consists of garnets and pyroxenes. Mineralogical composition of the samples Čučma-1 and Čučma-2 is represented by zonal garnets with $Grs_{76.12-82.31}$; $Adr_{17.69-23.88}$ composition in the core and $Grs_{95.48-97.05}$; $Adr_{2.95-4.52}$ composition in the rim. In the sample Čučma-3 inverse zonality (the core $Adr_{3.99}$, $Grs_{96.01}$; the rim $Adr_{20.55}$, $Grs_{79.45}$) of garnet is observable. The analyzed pyroxenes have a diopside composition with a variable $Mg/(Mg+Fe^{2+})$ ratio. A slightly increased content of Mn (up to 0.09 *apfu*) ascends into the johannsenite molecule.

***Key words:*** *Grossular, diopside, crystalline limestone, Čučma - Čierna baňa, Slovak Republic*

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