

*I. V. ROZHDESTVENSKAYA, O. S. VERESHCHAGIN, O. V. FRANK-KAMENETSKAYA,  
A. A. ZOLOTAREV, I. V. PEKOV.* ABOUT CRYSTAL-CHEMICAL FORMULA  
OF CHROMDRAVITE — MINERAL SPECIES FROM THE TOURMALINE GROUP

The crystal structure of tourmaline with high chromium content ( $\sim 32$  wt % of  $\text{Cr}_2\text{O}_3$ ) from micaceous metasomatites of Onega flexure ( $a = 16.154$ ,  $c = 7.427$  Å, sp. gr.  $R3m$ ,  $R = 0.040$ ,  $R_w = 0.043$ ) has been refined. The disorder distribution of  $\text{Cr}^{3+}$  and  $\text{Mg}^{2+}$  cations over Y- and Z-octahedral sites described by the ideal formula  $\text{Na}(\text{Cr}_2\text{Mg})(\text{Cr}_4\text{Mg}_2)(\text{BO}_3)_3(\text{Si}_6\text{O}_{18})(\text{OH})_4$  was revealed. The proximity of the common element composition of tourmaline examined to the composition of original chromdravite from the same deposit necessitates the revision of the ideal formula of this mineral species approved before by the commission of IMA.

*Key words:* tourmaline, chromdravite, structure, nomenclature.