Diffuse streaks in a single crystal X-ray diffraction photograph of humite from Sri Lanka

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The crystal structures of the humite group minerals (nMg2SiO4.Mg(OH,F)2) are described as stacking of brucite layers(Mg(OH,F)2) and olivine layers(Mg2SiO4) parallel to (001). Humite group minerals from Kuch Lai, Russia, Tilley Foster mine, U.S.A., Sterling Hill, U.S.A., Sri Lanka were studied using a single crystal oscillation camera with imaging plate and rotating anode X-ray generator. Single crystal X-ray diffraction photographs of humite(n=3) from Sri Lanka showed the coexistence of spots of humite and chondrodite and diffuse streaks parallel to c*, indicating the existence of stacking disorder.