

MAGNETIC SUSCEPTIBILITY OF POWDERS  
OF LAYERED DISELENIDES OF TRANSITION  
METALS WITH VARIOUS DISPERSIONS

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S u m m a r y

The temperature behavior of specific magnetic susceptibility ( $77 \div 300$  K) of stratified diselenides of d-transition metals of the V and VI groups of the periodic system are investigated. It is shown that diselenides of various structural types (2H – TaS<sub>2</sub> and 2H – MoS<sub>2</sub>) and conductivities (metal and semiconducting) exhibit various magnetic properties at a dispersion. For 2H – NbSe<sub>2</sub> (powders of micron sizes) possessing the metal type of conductivity, the Pauli paramagnetism is characteristic. In the nano-dispersed status (size of particles of  $25 \div 140$  nm), it is diamagnetic. For micron powders 2H – MoSe<sub>2</sub>, 2H – WSe<sub>2</sub> being semiconductors, diamagnetism is characteristic, and it turns in a Pauli paramagnetic material at a dispersion up to nano-sizes ( $15 \div 95$  nm). Reasons for the modification of magnetic properties of stratified diselenides of d-transition metals of the V and VI groups at their dispersion are discussed.