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Thermally induced phase transitions of Ge-As-Se ternary bulk compositions in modern spectroscopic, photonic, and communications devices of the x-ray diffraction, ultragraphic, etc. The microstructure, composition, and structural characteristics preparation dependencies are investigated for the development of possible optical low-loss devices. Concrete photonic materials for the application, such as Ge-As-Se, for AMOR developed by Amorphous Bulk Composites (As-Se) glass (ANR 100108) and Ge-Se-Sb (of CASR 200198) developed recently. *Keywords:* phase transition, preparation, application

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