

SPECIAL NOTICE: WEB PAPER

Nomenclature of the micas

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ABSTRACT

The Mica Subcommittee was appointed by the *Commission on New Minerals and Mineral Names* of the *International Mineralogical Association*. The definitions and recommendations presented were approved by the *Commission*.

The report discusses mica definition, subdivisions, principles of classification, end-member formulae, modifiers and suffixes, series names for incompletely investigated materials, and invalid names. The determination of the crystallochemical formula for different available chemical data is outlined, and a system of modifiers and suffixes is given to allow the expression of unusual chemical substitutions or polytypic stacking arrangements.

Formulas and permissible ranges of composition are given for the following valid true, brittle, and interlayer-cation-deficient micas:

Micas	Diocahedral		Triocahedral	
True	aluminoceladonite boromuscovite celadonite chromphyllite ferro-aluminoceladonite ferroceldadonite	muscovite nanpingite paragonite roscoelite tobelite	annite aspidolite eastonite ephesite hendricksite masutomilite montdorite norrishite	phlogopite polyolithionite preiswerkite siderophyllite tainiolite tetra-ferri-annite tetra-ferriphlogopite trilithionite
Brittle	chernykhite margarite		anandite bityite	clintonite kinoshitalite
Interlayer-deficient	brammallite glauconite	illite	wonesite	

Tables of mica synonyms and varieties, ill-defined materials and mixtures, and a list of names formerly or erroneously used for micas are presented.

The complete report is available on the American Mineralogist web site (<http://www.minsocam.org/AmMin/ammin.html>). Click on Special Features.

*Russia; deceased 1994.

†Italy; deceased 1988.

‡Australia, resigned 1986.

§U.S.A.; deceased 1984.