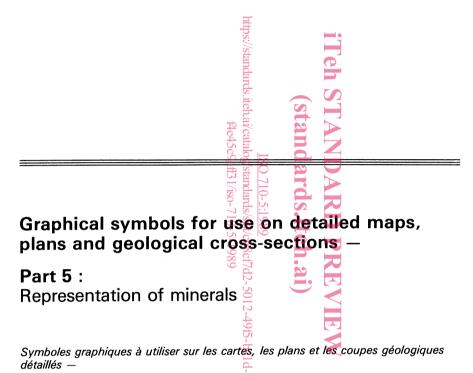
INTERNATIONAL STANDARD

ISO 710-5

Second edition 1989-07-01



Partie 5 : Représentation des minéraux



Reference number ISO 710-5 : 1989 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at EVIEW least 75 % approval by the member bodies voting.

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International Standard ISO 710-5 was prepared by Technical Committee ISO/TC 82, Minina. ISO 710-5:1989

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This second edition cancels and replaces the first edition (ISO 71051:1982) table 1 of which has been technically revised : symbol 16 has been deleted and symbols 17 and 18 have been replaced.

ISO 710 consists of the following parts, under the general title Graphical symbols for use on detailed maps, plans and geological cross-sections :

- Part 1: General rules of representation
- Part 2: Representation of sedimentary rocks
- Part 3: Representation of magmatic rocks
- Part 4: Representation of metamorphic rocks
- Part 5: Representation of minerals

Part 6: Representation of contact rocks and rocks which have undergone metasomatic, pneumatolytic or hydrothermal transformation or transformation by weathering

Part 7: Tectonic symbols

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Graphical symbols for use on detailed maps, plans and geological cross-sections -

Partie 5 : **Representation of minerals**

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1 Scope

sections.

The symbols for minerals are added to the elementary symbols ISO 710-5:1 for the rock as specified in the relevant part of ISO 710; by This part of ISO 710 provides a unified series of symbols and dards via ving the - humber of added elements, the frequency of abbreviations for the representation of certain minerals often /iso-710ccurrence of the represented mineral can be indicated. found in rocks, with a view to facilitating the characterization of certain rocks on detailed maps, plans and geological cross-

In general, there are two ways of representing these minerals, namely

- by the addition of another symbol, characterizing the mineral, to the elementary symbol for the rock in question;

by the addition of letters, designating the mineral, to the symbol for the rock.

2 Representation by symbols (see table 1)

In view of the great variety of minerals which exist, it is impossible to design symbols for them all and therefore specific symbols can be assigned only to a selection of minerals. To emphasise the incomplete nature of table 1, the minerals have been listed in random order.

As far as possible, the shape of each symbol represents the crystal form of the mineral in question. If it is necessary to develop symbols for further minerals, this shall be done in the same way.

3 Designation by Latin letters (see table 2)

A greater number of minerals have been designated by letters of the Latin alphabet. The result of this study is shown in the list in table 2 which gives the abbreviations in alphabetical order, followed by the names of the corresponding minerals.

As far as possible, abbreviations consisting of only one letter have been avoided. In general, lower case letters shall be used for minerals; however, for chemical elements the first letter shall be a capital. The same rules shall be used concerning abbreviations for other minerals.

In those cases where letters are also used for the designation of other rock characteristics, the abbreviations for minerals shall be marked in a special way (for example by choosing a different type of writing or by framing the abbreviation). The marking shall be defined in a key.

If the occurrence of several minerals in the same rock is indicated by letters, the abbreviations shall be listed in the order of importance of the minerals. The most abundant mineral shall be placed first.

Table 1 – Symbols

No.	Mineral	Symbol	No.	Mineral	Symbol	
1	Muscovite		12	Sillimanite	\square	
2	Biotite		13	Kyanite		
3	Chlorite	~	14	Cordierite		
4	Olivine		15	Epidote	\diamond	
5	Hypersthene		16	Potash feldspar	厂	
6	Pyroxene	Feh STANDA	17 RD	Plagioclase PREVIEW		
7	Amphibole	(standar	ds.i1	eh.ai) Magnetite	-	
8	https://	/standards.ite <mark>h</mark> ai/catalog/sta f4e45c9aff3	idards/sist /iso-7 19 0-	c68cf7d2-5012-49f5-ba1d- 5- Gjaphite	-	
9	Garnet	\bigcirc	20	Quartz	\bigtriangledown	
10	Andalusite		21	Calcite	\Leftrightarrow	
11	Staurolite	\square				

Table 2 – Abbreviations

No.	Abbrevi- ation	Name		No.	Abbrevi- ation	Name		No.	Abbrevi- ation	Name
1	ab	Albite		42	dt	Dickite	1	83	pg	Plagioclase
2	ad	Andalusite		43	ер	Epidote		84	pl	Phlogopite
3	ae	Aegirine		44	fl	Fluorite		85	pn	Pyrrhotine
4	Ag	Native silver		45	fs	Feldspar		86	ро	Pyrope
5	ah	Anhydrite		46	gf	Graphite		87	Pt	Native platinum
6	ak	Actinolite		47	gk	Glauconite		88	pw	Perovskite
7	al	Almandine		48	gn	Galena		89	рх	Pyroxene
8	am	Amphibole		49	gr	Garnet		90	ру	Pyrite
9	an	Anorthite		50	gy	Gypsum		91	pz	Pyrolusite
10	ар	Apatite		51	hb	Hornblende		92	qz	Quartz
11	ar	Arsenopyrite		52	hm	Hematite		93	ro	Rhodochrosite
12	as	Asbestos		53	hy	Hypersthene		94	rt	Rutile
13	at	Alunite	1	54	il	Ilmenite		95	S	Sulfur
14	Au	Native gold		55	it	Illite		96	sa	Sphalerite
15	av	Augite		56	jr	Jarosite		97	sb	Stibnite
16	ax	Axinite		57	kf	Potash feldspar		98	sc	Sericite
17	ay	Anthophyllite		58	kl	Kaolinite		99	sd	Siderite
18	ba	Barite		59	ko	Corundum		100	se	Serpentine
19	be	Beryl iTeh		60		Leucite REV	Ð	101	sh	Scheelite
20	bi	Biotite		61	le	Lepidolite		102	sk	Scapolite
21	bs	Bismuthinite		Star	Id arc	Simonite 1.ai)		103	sl	Sillimanite
22	са	Calcite		63	lt	Leptochlorite		104	sm	Spodumene
23	cb	Cobaltine		64	ISng710	- Magnesite		105	sn	Spessartite
24	сс	Cancrinite ttps://standar	rds.	teh.65/cat	alog/standa	rde/sist/c68cf7d2-5012	-491	5-b106d-	so	Sodalite
25	се	Cerussite		6 ⁶⁴ e4	5c9aff31/is	•-Microcline ⁸⁹		107	sp	Spinel
26	ch	Chlorite		67	ml	Melanite		108	sr	Scorodite
27	ci	Cinnabar		68	mm	Montmorillonite		109	st	Staurolite
28	cl	Columbite		69	mo	Molybdenite		110	sy	Sylvine
29	cn	Chalcedony		70	ms	Marcasite		111	ti	Titanite, sphene
30	со	Cordierite		71	mt	Magnetite		112	tk	Talc
31	ср	Chalcopyrite		72	mu	Muscovite		113	tm	Titano-magnetite
32	cr	Chromite		73	mz	Monazite		114	tr	Tremolite
33	cs	Cassiterite		74	na	Halite, Rock salt		115	tu	Tourmaline
34	ct	Carnallite		75	ne	Nepheline		116	tz	Topaz
35	су	Kyanite		76	nk	Nacrite		117	va	Vanadinite
36	da	Datolite		77	nt	Nontronite		118	vs	Vesuvianite
37	di	Diopside		78	or	Orthoclase		119	wf	Wolframite
38	dl	Diallage		79	ot	Orthite		120	wl	Wollastonite
39	dm	Diamond		80	ov	Olivine		121	ze	Zeolite
40	dn	Stilbite (desmine)		81	oz	Ozokerite		122	zr	Zircon
41	do	Dolomite		82	рс	Pyrochlore		123	zw	Zinnwaldite

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Descriptors : geology, maps, drawings, transverse sections, schematic presentation, symbols, graphic symbols, minerals and ores.

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