

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1587

GYPSUM ROCK

FOR THE MANUFACTURE OF BINDERS

CLASSIFICATION, CHARACTERISTICS AND TEST METHODS

1st EDITION

March 1972

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BRIEF HISTORY

The ISO Recommendation R 1587, *Gypsum rock for the manufacture of binders – Classification, characteristics and test methods*, was drawn up by Technical Committee ISO/TC 74, *Hydraulic binders*, the Secretariat of which is held by the Institut Belge de Normalisation (IBN).

Work on this question led to the adoption of Draft ISO Recommendation No. 1587, which was circulated to all the ISO Member Bodies for enquiry in June 1968.

The Draft was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Ireland	South Africa, Rep. of
Austria	Israel	Spain
Brazil	Italy	Sweden
Czechoslovakia	Netherlands	Thailand
France	Norway	Turkey
Greece	Peru	U.A.R.
Hungary	Poland	United Kingdom
India	Portugal	
Iran	Romania	

The following Member Body opposed the approval of the Draft :

Germany

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

GYPSUM ROCK FOR THE MANUFACTURE OF BINDERS

CLASSIFICATION, CHARACTERISTICS AND TEST METHODS

1. SCOPE

This ISO Recommendation defines the classification and characteristics of gypsum rock used as raw material for the manufacture of calcium sulphate binders, or as an admixture in the manufacture of other kinds of binders.

It also specifies the relevant test methods.

2. DEFINITION

Gypsum rock. Sedimentary rock formation of crystalline structure with calcium sulphate dihydrate ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) as the main component.

3. CLASSIFICATION

3.1 According to the calcium sulphate content

Four classes of gypsum rock are distinguished, according to the calcium sulphate dihydrate content, T_g :

Class I	$T_g \geq 90 \%$
Class II	$80 \% \leq T_g < 90 \%$
Class III	$70 \% \leq T_g < 80 \%$
Class IV	$55 \% \leq T_g < 70 \%$

3.2 According to the particle sizes

Five groups of gypsum rock are distinguished, according to the size of the particles :

Group 1	0 to 20 mm
Group 2	20 to 50 mm
Group 3	50 to 150 mm
Group 4	0 to 150 mm
Group 5	0 to 300 mm

Other groups of particle sizes may be adopted, as required by the user.