

DIN EN ISO 14688-1



ICS 13.080.05; 93.020

Supersedes
DIN EN ISO 14688-1:2018-05

**Geotechnical investigation and testing — Identification and classification of soil — Part 1: Identification and description (ISO 14688-1:2017);
English version EN ISO 14688-1:2018,
English translation of DIN EN ISO 14688-1:2020-11**

Geotechnische Erkundung und Untersuchung — Benennung, Beschreibung und Klassifizierung von Boden — Teil 1: Benennung und Beschreibung (ISO 14688-1:2017);
Englische Fassung EN ISO 14688-1:2018,
Englische Übersetzung von DIN EN ISO 14688-1:2020-11

Reconnaissance et essais géotechniques — Identification et classification des sols — Partie 1 :
Identification et description (ISO 14688-1:2017);
Version anglaise EN ISO 14688-1:2018,
Traduction anglaise de DIN EN ISO 14688-1:2020-11

Document comprises 36 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

National foreword

This document (EN ISO 14688-1:2018) has been prepared by Technical Committee ISO/TC 182 “Geotechnics” in collaboration with Technical Committee CEN/TC 341 “Geotechnical investigation and testing” (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-05-02 AA “Identification, description and classification of soil and rock (national mirror committee for ISO/TC 182/WG 1)”.

This document has been supplemented by national annexes. National Annex NA includes explanatory notes to DIN EN ISO 14688-1:2020-11 on the application of this document. National Annex NB includes additional references.

The DIN documents corresponding to the international documents referred to in this document are as follows:

ISO 14688-2	DIN EN ISO 14688-2
ISO 14689-1	DIN EN ISO 14689
ISO 22475-1	DIN EN ISO 22475-1
ISO 25177	DIN EN ISO 25177

For current information on this document, please go to DIN’s website (www.din.de) and search for the document number in question.

Amendments

This standard differs from DIN EN ISO 14688-1:2018-05 as follows:

- a) Table 4 in subclause 6.1.6 has been corrected;
- b) National Annex NA has been added;
- c) National Annex NB has been added.

Previous editions

DIN 4022: 1938-04
DIN 4022-1: 1955-02, 1969-11, 1987-09
DIN EN ISO 14688-1: 2003-01, 2011-06, 2013-12, 2018-05

National Annex NA (informative)

Explanatory notes to DIN EN ISO 14688-1:2020-11

Re 3.7 and 3.13:

In the English language standard, two different terms are used for the German term “*Korngrößenverteilung*”: 3.7 “grading” and 3.13 “particle size distribution”. The terms are used synonymously in English and do not differ in meaning.

Re 3.17:

Dissolving semi-solid, solid or fine-grained soils of high plasticity by hand in water can be difficult.

Re 5.1.1, Table 1:

In Germany the short forms according to DIN 4023:2006-02 may be used for the designation of the particle size fractions in addition to the symbols which are a result of the English designations. Table NA.1 compares the symbols according to DIN EN ISO 14688-1:2020-11, Table 1 with the corresponding short forms according to DIN 4023:2006-02, Table 1.

Table NA.1 — Comparison of the particle size fractions as in DIN EN ISO 14688-1:2020-11 and as in DIN 4023:2006-02

Particle size fractions as in DIN EN ISO 14688-1:2020-11, Table 1 (Symbol)	Symbol as in DIN 4023:2006-02, Table 1 Primary fraction (secondary fraction)
großer Block (lBo, en: large boulder)	—
Block (Bo, en: boulder)	Y (y)
Stein (Co, en: cobble)	X (x)
Kies (Gr, en: gravel)	G (g)
Grobkies (cGr, en: coarse gravel)	gG (gg)
Mittelkies (mGr, en: medium gravel)	mG (mg)
Feinkies (fGr, en: fine gravel)	fG (fg)
Sand (Sa, en: sand)	S (s)
Grobsand (cSa, en: coarse sand)	gS (gs)
Mittelsand (mSa, en: medium sand)	mS (ms)
Feinsand (fSa, en: fine sand)	fS (fs)
Schluff (Si, en: silt)	U (u)
Grobschluff (cSi, en: coarse silt)	gU (gu)
Mittelschluff (mSi, en: medium silt)	—
Feinschluff (fSi, en: fine silt)	—
Ton (Cl, en: clay)	T (t)