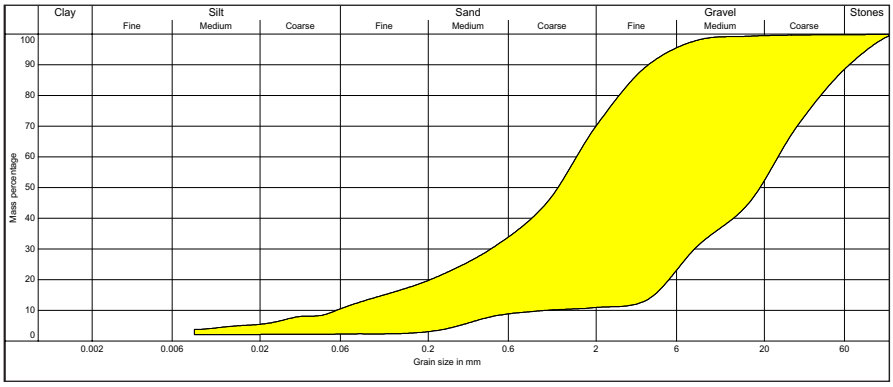
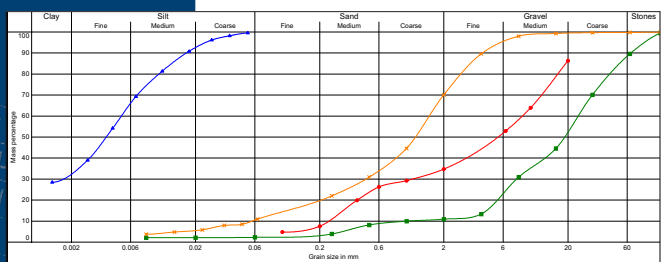
DC-SOFTWARE

Sieve and sedimentation analysis
DCSIEVE



Graphic as envelope

- Sieve and sedimentation analysis acc. to DIN 18 123-5 to 7, EN ISO/TS 17892-4, ÖNORM B 4412, SN 670 810c, 670 816a, 670 008a, 670 140b, 670 120d
- German and English program version
- Use of any sieve sets
- Sedimentation with different areo-meters
- Any number of sieve lines on a page
- Optional grapic as envelope
- Limit lines and points according to ZTVT, ETV, DIN 4226, DIN 18035, TL-Min, ZTV SoB, TL SoB, TV-VEG, FLL, BMVBW ARS, SN 670 120d, SN 670 130
- Determination of the sediment coefficients: Kurtosis, inclination, sorting etc.
- Detailed evaluations:
  - Irregularity grade U
  - Curvature coefficient C_C
  - Angle of internal friction acc. to Lang/Huder/Amann
  - Soil type, optionally with fine subdivision
  - Soil group according to DIN 18 196 / USCS
  - Frost sensitivity class
  - Permeability according to van Hazen, Beyer, Seiler, Kaubisch
  - Portion < 0,063 mm
  - d_{10} / d_{60}
  - Portions to free grain sizes
  - Grain sizes to free percent values
  - Filter granulation according to DVGW W113 and Bieske
  - Customizable label fields
  - Addition DCSIEVE-ZTVE: Frost-proof analysis according to ZTVE-StB 94 and ZTVT-StB 95



Lab number	1951	1958	1959	1960
Location	B 2	B 3	Sch 1	B 3
Date of sampling	8.00 m	4.50 m	3.50 m	3.50 m
Irregularity grade U	U = 36.1	-	U = 24.0	U = 26.8
Curvature coefficient Cc	Cc = 0.6	-	Cc = 2.4	Cc = 2.6
Soil type	G,F	U	G,x',ms'	S,fg,u
Soil group	GI	U	GW	SU
d10 / d60	0.238/8.592 mm	- /0.005 mm	1.007/24.160 mm	0.057/1.525 mm
Portion < 0.063 mm	-	100.0 %	2.3 %	10.9 %
Frost sensitivity class	F1	F3	F1	F2
kf acc. to Hazen	- (U > 5)	-	- (U > 5)	- (U > 5)
kf acc. to Beyer	- (U > 30)	-	9.3E-003 m/s	2.9E-005 m/s
kf acc. to Seiler	3.8E-004 m/s	-	4.0E-002 m/s	1.1E-004 m/s
Filter granulation (W 113)	8 - 16 mm	< 0.4 mm	> 31.5 mm	8 - 16 mm
PN acc.Lang/Huder/Amann	-	11.9 *	-	-

Several sieve lines per page with evaluation

Analysis according to ZTVE/ZTVT

Soil group acc. to USCS / ZTVE-StB 94: GI Gravel, intermediately graded
Frost sensivity class acc. to ZTVE-StB 94: F1 (not frost sensitive)

Requirements to the anti-freeze layer acc. to ZTVT-StB 95
a) Frost sensitivity

	Sieve passing available	Sieve passing perm. portion	Requirement fulfilled
Portion of coarsest grain size + oversize grain in m.-%	13.6%	>= 10.0%	yes
Portion of oversize grain	0.0%	<= 10.0%	yes
Portion <= 0.063 mm in m.-%	3.0%	<= 7.0%	yes
b) for the upper 20 cm of the anti-freeze layer			
Portion > 2 mm	65.2%	>= 30.0%	yes
		<= 85.0%	yes
Portion > 22 mm	-	-	-

Judgement:
The requirements to the anti-freeze layer acc. to ZTVT-StB 95 are fulfilled.