Liya Testing Sieves

Four frame diameters | Woven wire and perforated plate options

Stainless steel • Lids and receiving pans • Wet sieving options



Ø200-450 mm

FRAME DIAMETER OPTIONS

25 µm-125 mm

NOMINAL APERTURE RANGE

Aggregate • Soil • Minerals • Cement • Powdered and granular materials

Photograph and Sieve Components

Screening surface, rigid frame and identification label

Stainless steel test sieves separate specimens by aperture size. Woven wire and perforated plate options cover different particle sizes. Select frame diameter for the sample quantity and sieve shaker.

WOVEN WIRE SURFACE

Mesh apertures determine whether material passes or remains on the sieve.

RIGID FRAME

The stainless steel frame supports the screening surface and allows stacking.



FINE SIEVE SURFACE

Keep fine apertures clean. Check for blockage and surface damage.

IDENTIFICATION LABEL

Check aperture and sieve identity; match them to the test records.



Woven wire and aperture detail



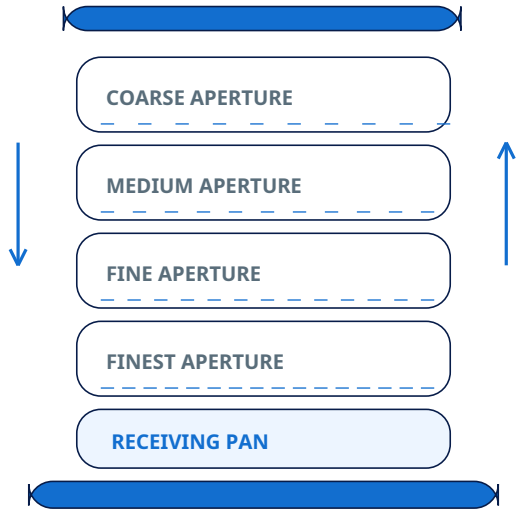
Sieve stack, lid and different screening surfaces

LT-G1000 / 3000 / 2000 / 7000

Particle Size Analysis with a Sieve Stack

Stack coarse to fine • Sieve • Weigh fractions • Calculate distribution

DECREASING APERTURES + RECEIVING PAN



APERTURES DECREASE FROM TOP TO BOTTOM

LID • SIEVE STACK • RECEIVING PAN

m_i: RETAINED MASS • M: TOTAL DRY MASS

Retained on sieve (%) = 100 × m_i / M

REPRESENTATIVE SIEVING DIAGRAM • NOT TO SCALE

Select and Stack

Select apertures required by the test method. Put coarse sieves above fine ones and the pan below.

Sieve and Weigh Fractions

Sieve according to the method. Weigh material retained on each sieve separately.

Calculate and Record

Calculate retained and passing percentages. Record specimen ID, apertures and masses.

The sieve stack separates material into fractions by aperture size. Retained mass divided by total dry mass gives the retained percentage. Include the receiving pan and check mass balance under the relevant test procedure.

Surface and Standard Selection

ISO 3310-1 covers technical requirements for woven wire test sieves; ISO 3310-2 covers perforated metal plate test sieves.

Use the aperture series and construction required by the test method. Consider woven wire for fine and medium particles and suitable perforated plate for coarse, heavy specimens.

Frames, Accessories and Cleaning

Frame options are Ø200 × 50, Ø300 × 75, Ø400 × 50 and Ø450 × 50 mm. Match lid and receiving pan to the frame diameter.

Use suitable washing sieves for wet separation. Clean without damaging the surface; check for blocked apertures and frame deformation.

Frame Options and Sieve Construction

Four diameters • Nominal aperture range • Surfaces and accessories

Frame (mm)	Code Series	Height (mm)	Diameter (mm)
Ø200 × 50	LT-G1001 - LT-G1073	50	200
Ø300 × 75	LT-G3001 - LT-G3073	75	300
Ø400 × 50	LT-G2001 - LT-G2073	50	400
Ø450 × 50	LT-G7001 - LT-G7073	50	450

Common Specification	Value / Description
Nominal Aperture Range	125 mm - 25 µm
Material	Stainless steel
Screening Surface	Woven wire or perforated plate
Woven Wire Requirements	ISO 3310-1
Perforated Plate Requirements	ISO 3310-2
Accessories	Matching lid • Receiving pan • Washing sieve

Specify Aperture, Frame Diameter and Screening Surface

Select the aperture series for the test method. Match frame dimensions to the sieve shaker; specify woven wire or perforated plate construction when ordering.

From Specimen to Particle Size Distribution

01
Select
Choose test apertures and suitable diameter.

02
Stack
Stack coarse to fine and fit the lid.

03
Sieve
Sieve and weigh under the test method.

04
Calculate
Record retained and passing percentages.

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Apertures and Product Codes | 1/3

Frame diameter × height • Nominal aperture and four series

Aperture	Ø200 × 50 mm	Ø300 × 75 mm	Ø400 × 50 mm	Ø450 × 50 mm
125 mm	LT-G1001	LT-G3001	LT-G2001	LT-G7001
100 mm (4")	LT-G1002	LT-G3002	LT-G2002	LT-G7002
90 mm (3-1/2")	LT-G1003	LT-G3003	LT-G2003	LT-G7003
80 mm	LT-G1004	LT-G3004	LT-G2004	LT-G7004
75 mm (3")	LT-G1005	LT-G3005	LT-G2005	LT-G7005
63 mm (2-1/2")	LT-G1006	LT-G3006	LT-G2006	LT-G7006
56 mm	LT-G1007	LT-G3007	LT-G2007	LT-G7007
53 mm (2.12")	LT-G1008	LT-G3008	LT-G2008	LT-G7008
50 mm (2")	LT-G1009	LT-G3009	LT-G2009	LT-G7009
45 mm (1-3/4")	LT-G1010	LT-G3010	LT-G2010	LT-G7010
40 mm	LT-G1011	LT-G3011	LT-G2011	LT-G7011
37.5 mm (1-1/2")	LT-G1012	LT-G3012	LT-G2012	LT-G7012
31.5 mm (1-1/4")	LT-G1013	LT-G3013	LT-G2013	LT-G7013
26.5 mm (1.06")	LT-G1014	LT-G3014	LT-G2014	LT-G7014
25 mm (1")	LT-G1015	LT-G3015	LT-G2015	LT-G7015
22.4 mm (7/8")	LT-G1016	LT-G3016	LT-G2016	LT-G7016
20 mm	LT-G1017	LT-G3017	LT-G2017	LT-G7017
19 mm (3/4")	LT-G1018	LT-G3018	LT-G2018	LT-G7018
16 mm (5/8")	LT-G1019	LT-G3019	LT-G2019	LT-G7019
13.2 mm (.530")	LT-G1020	LT-G3020	LT-G2020	LT-G7020
12.5 mm (1/2")	LT-G1021	LT-G3021	LT-G2021	LT-G7021
11.2 mm (7/16")	LT-G1022	LT-G3022	LT-G2022	LT-G7022
10 mm	LT-G1023	LT-G3023	LT-G2023	LT-G7023
9.5 mm (3/8")	LT-G1024	LT-G3024	LT-G2024	LT-G7024
8 mm (5/16")	LT-G1025	LT-G3025	LT-G2025	LT-G7025

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Apertures and Product Codes | 2/3

Frame diameter × height • Nominal aperture and four series

Aperture	Ø200 × 50 mm	Ø300 × 75 mm	Ø400 × 50 mm	Ø450 × 50 mm
6.7 mm (.265")	LT-G1026	LT-G3026	LT-G2026	LT-G7026
6.3 mm (1/4")	LT-G1027	LT-G3027	LT-G2027	LT-G7027
5.6 mm (No.3-1/2)	LT-G1028	LT-G3028	LT-G2028	LT-G7028
5 mm	LT-G1029	LT-G3029	LT-G2029	LT-G7029
4.75 mm (No.4)	LT-G1030	LT-G3030	LT-G2030	LT-G7030
4 mm (No.5)	LT-G1031	LT-G3031	LT-G2031	LT-G7031
3.35 mm (No.6)	LT-G1032	LT-G3032	LT-G2032	LT-G7032
3.15 mm	LT-G1033	LT-G3033	LT-G2033	LT-G7033
2.8 mm (No.7)	LT-G1034	LT-G3034	LT-G2034	LT-G7034
2.5 mm	LT-G1035	LT-G3035	LT-G2035	LT-G7035
2.36 mm (No.8)	LT-G1036	LT-G3036	LT-G2036	LT-G7036
2 mm (No.10)	LT-G1037	LT-G3037	LT-G2037	LT-G7037
1.7 mm (No.12)	LT-G1038	LT-G3038	LT-G2038	LT-G7038
1.6 mm	LT-G1039	LT-G3039	LT-G2039	LT-G7039
1.4 mm (No.14)	LT-G1040	LT-G3040	LT-G2040	LT-G7040
1.25 mm	LT-G1041	LT-G3041	LT-G2041	LT-G7041
1.18 mm (No.16)	LT-G1042	LT-G3042	LT-G2042	LT-G7042
1 mm (No.18)	LT-G1043	LT-G3043	LT-G2043	LT-G7043
850 µm (No.20)	LT-G1044	LT-G3044	LT-G2044	LT-G7044
800 µm	LT-G1045	LT-G3045	LT-G2045	LT-G7045
710 µm (No.25)	LT-G1046	LT-G3046	LT-G2046	LT-G7046
630 µm	LT-G1047	LT-G3047	LT-G2047	LT-G7047
600 µm (No.30)	LT-G1048	LT-G3048	LT-G2048	LT-G7048
500 µm (No.35)	LT-G1049	LT-G3049	LT-G2049	LT-G7049
425 µm (No.40)	LT-G1050	LT-G3050	LT-G2050	LT-G7050

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Apertures and Product Codes | 3/3

Frame diameter × height • Nominal aperture and four series

Aperture	Ø200 × 50 mm	Ø300 × 75 mm	Ø400 × 50 mm	Ø450 × 50 mm
400 µm	LT-G1051	LT-G3051	LT-G2051	LT-G7051
355 µm (No.45)	LT-G1052	LT-G3052	LT-G2052	LT-G7052
315 µm	LT-G1053	LT-G3053	LT-G2053	LT-G7053
300 µm (No.50)	LT-G1054	LT-G3054	LT-G2054	LT-G7054
250 µm (No.60)	LT-G1055	LT-G3055	LT-G2055	LT-G7055
212 µm (No.70)	LT-G1056	LT-G3056	LT-G2056	LT-G7056
200 µm	LT-G1057	LT-G3057	LT-G2057	LT-G7057
180 µm (No.80)	LT-G1058	LT-G3058	LT-G2058	LT-G7058
160 µm	LT-G1059	LT-G3059	LT-G2059	LT-G7059
150 µm (No.100)	LT-G1060	LT-G3060	LT-G2060	LT-G7060
125 µm (No.120)	LT-G1061	LT-G3061	LT-G2061	LT-G7061
106 µm (No.140)	LT-G1062	LT-G3062	LT-G2062	LT-G7062
100 µm	LT-G1063	LT-G3063	LT-G2063	LT-G7063
90 µm (No.170)	LT-G1064	LT-G3064	LT-G2064	LT-G7064
80 µm	LT-G1065	LT-G3065	LT-G2065	LT-G7065
75 µm (No.200)	LT-G1066	LT-G3066	LT-G2066	LT-G7066
63 µm (No.230)	LT-G1067	LT-G3067	LT-G2067	LT-G7067
53 µm (No.270)	LT-G1068	LT-G3068	LT-G2068	LT-G7068
50 µm	LT-G1069	LT-G3069	LT-G2069	LT-G7069
45 µm (No.325)	LT-G1070	LT-G3070	LT-G2070	LT-G7070
40 µm	LT-G1071	LT-G3071	LT-G2071	LT-G7071
38 µm (No.400)	LT-G1072	LT-G3072	LT-G2072	LT-G7072
25 µm	LT-G1073	LT-G3073	LT-G2073	LT-G7073

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