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### **Chemicals - Technical Library Chemistry Products** Particle Size Conversion Table **New Chemistry Products Sieve Designation Nominal Sieve Opening Chemical Synthesis** Standard Mesh inches Microns mm 25400 **Discovery Chemistry &** 25.4 mm 1 in. 1.00 25.4 Services 22.6 mm 7/8 in. 0.875 22.6 22600 19.0 mm 3/4 in. 0.750 19.0 19000 Flavors & Fragrances 16.0 mm 5/8 in. 0.625 16.0 16000 **Greener Alternatives** 13.5 mm 0.530 in. 0.530 13.5 13500 12.7 mm 1/2 in. 0.500 12.7 12700 Products for the Petrochemical 7/16 in. 0.438 11.2 mm 11.2 11200 Industry 3/8 in. 0.375 9510 9.51 mm 9.51 Phosphoramidites and 8.00 mm 5/16 in. 0.312 8.00 8000 Reagents 6.73 mm 0.265 in. 0.265 6.73 6730 6.35 mm 1/4 in. 0.250 6.35 6350 Solvent Center 5.66 mm No.3 1/2 0.223 5.66 5660 Stable Isotopes 4.76 mm No. 4 0.187 4.76 4760 4.00 mm No. 5 0.157 4.00 4000 Stockroom Reagents 3.36 mm No. 6 0.132 3 36 3360 **Chemical Products** 2.83 mm No 7 0.111 2 83 2830 Learning Center 2.38 mm No. 8 0.0937 2 38 2380 Product Guide Request 2.00 mm No. 10 0.0787 2.00 2000 Lab Basics Technical 1.68 mm No. 12 0.0661 1.68 1680 Library 1.41 mm No. 14 0.0555 1.41 1410 0.0469 1190 Concentrations of 1.19 mm No. 16 1.19 Acids & Bases 0.0394 1000 1.00 mm No. 18 1.00 Mass Molarity 841 No. 20 0.0331 0.841 0.841 mm Calculator 0.707 mm No. 25 0.0278 0.707 707 Normality & Molarity No. 30 0.0234 0.595 595 0.595 mm Calculator No. 35 0.0197 0.500 500 0.500 mm Particle Size 0.420 mm No. 40 0.0165 0.420 420 Conversion 354 0.354 mm No. 45 0.0139 0.354 Properties of 0.297 mm No. 50 0.0117 0.297 297 Solvents 0.250 mm No. 60 0.0098 0.250 250 Solution Dilution 0.210 mm No. 70 0.0083 0.210 210 Calculator 0.177 mm No. 80 0.0070 0.177 177 Syringe Needle 0.149 mm No. 100 0.0059 0.149 149 Gauge Chart 0.125 mm No. 120 0.0049 0.125 125 Wire Gauge 0.105 mm No. 140 0.0041 0.105 105 Conversion Chart 0.088 mm No. 170 0.0035 0.088 88 Product Highlights 0.074 mm No. 200 0.0029 0.074 74 0.063 mm No. 230 0.0025 63 Labware 0.063 0.053 mm No. 270 0.0021 0.053 53 Materials Science 0.044 mm No. 325 0.0017 0.044 44 0.037 mm No. 400 0.0015 0.037 37 Aldrichimica Acta Subscription Larger sieve openings (1 in. to 1/4 in.) have been designated by a sieve "mesh" size that corresponds to t size of the opening in inches. Smaller sieve "mesh" sizes of 3 1/2 to 400 are designated by the number o openings per linear inch in the sieve. Aldrichimica Acta

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The following convention is used to characterize particle size by mesh designation:

a "+" before the sieve mesh indicates the particles are retained by the sieve;

- a "-" before the sieve mesh indicates the particles pass through the sieve;
- typically 90% or more of the particles will lie within the indicated range.

For example, if the particle size of a material is described as -4 +40 mesh, then 90% or more of the mater will pass through a 4-mesh sieve (particles smaller than 4.76 mm) **and** be retained by a 40-mesh sieve

(particles larger than 0.420 mm). If a material is described as -40 mesh, then 90% or more of the materia will pass through a 40-mesh sieve (particles smaller than 0.420 mm).

This information is also provided on page T848 of the Aldrich 2003-2004 Catalog/Handbook of Fine Chemicals. Return to LabBasics Technical Library homepage



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