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Measuring cylinder used in chemistry lab

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These PP graduated cylinders offer an excellent chemical resistance. The materials used for production are PP, PMP and SAN. Detailed information about graduated calinders manufactured from the corresponding materials can be found in the following. PP Graduated Cylinders Vitlab´s graduated cylinders made from PP are highly transparent and adjusted to "in". The error limit meets the requirements of class B according to DIN 12681 and ISO 6706. Thereby thermal load up to a max. temperature of 80 °C are possible without causing permanently exceeded error limits. It is distinguished between graduated cylinders with tall shape and ones with a small shape. Latters are made with a raised graduation. However, cylinders with a tall shape are delivered with a hexagonal pedestal with nubs and produced with a raised as well as with a blue raised graduation. Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders, PP, class B, small shape, raised grad. 25 0,50 0,50 122 250 5,0 5,0 192 50 1,0 1,0 142 500 10 10 218 100 2,0 2,0 163 1000 20 20 285 Graduated cylinders, PP, class B, tall shape, raised/raised blue grad. 10 0,20 0,20 145 250 2,0 2,0 315 25 0,50 0,50 170 500 5,0 5,0 360 50 1,0 1,0 200 1000 10 10 440 100 1,0 1,0 250 2000 20 20 482 PMP Graduated Cylinders PMP graduated cylinders of Vitlab are crystal-clear and compliant certified. There are two different variant available, with raised grad. or with imprinted red grad. The cylinders are adjusted to "in". The batch certificate, which is part of the delivery, contains a batch number and the actual determined nominal volume under specification of the test conditions. The resulting deviations from the nominal volume undercut the required limits of class A according to DIN 12681 and ISO 6706. The products are also available with a DAkkS calibration certificate or individual certificate. Vitlabs graduated cylinders are delivered with a hexagonal pedestal to increase stability. Thermal load up to 121 °C will not cause any permanently exceeded error limits. Nevertheless for PMP graduated cylinders with imprinted grad. cleaning at max. 60 °C are recommended to save the grad. Therefore, for frequently autoclaving we recommend a graduated cylinder with a raised grad. Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders, PMP, class A, KP, tall shape, raised grad./imprinted red grad. 10 0,20 0,1 145 250 2,0 1,0 315 25 0,50 0,25 170 500 5,0 2,5 360 50 1,0 0,50 200 1000 10 5,0 440 100 1,0 0,50 250 2000 20 10 482/535 SAN Graduated Cylinders Graduated cylinders of Vitlab made from SAN are crystal-clear and adjusted to "in". The error limit meets the requirements of class B according to DIN 12681 and ISO 6706. Thereby thermal load up to max. 60 °C is possible without causing any permanently exceeded error limits. The graduation of these products is raised. It is distinguished between SAN graduated cylinders with a tall and a small shape. First is delivered with a hexagonal pedestal with nubs. Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders, SAN, class B, small shape, raised grad. 25 0,5 0,5 122 250 5,0 5,0 192 50 1,0 1,0 142 500 10 10 218 100 2,0 2,0 163 1000 20 20 285 Here you can go back to the products. Page 8 Exact determination and measurement of volumes The closely calibrated scales of volumetric products allow very accurate determination and measurement of volumes. The products e.g. by Duran are available in two accuracy classes. The two classes differ in the accuracy of measurement: class A is the highest accuracy class, class AS has the same tolerances as class A, but is designed to permit more rapid outflow. The accuracy of class B is approximately half that of class A. Measuring and mixing cylinder are calibrated for IN, which means volumetric flasks and cylinders are calibrated to measure the amount of fluid contained. So e.g. the desired concentration can be precisely set. Tips for heating volumetric glassware To ensure a long life-time for your measuring and mixing cylinder and to avoid volume changes, the products should not be heated above +180°C in drying cabinets or sterilisers. Do not heat volumetric glassware on a hot plate. The lab glassware should gradually be heated up and cooled down to avoid thermal stresses and thus any possible breakage of the glass. Brand - Graduated Cylinders and Mixing Cylinders Brand a manufacturer of lab supply, whose complete product range is available at the analytics-shop.com, offers among other things graduated cylinders and mixing cylinders. These products are made from glass (boro silicate) as well as from synthetics (PP, PMP, SAN). Glass Cylinders The glass cylinders of Brand manufactured under the brand Blaubrand are made from high purity boro 3.3 according to DIN EN ISO 4788. All these glass products are characterized by a spout and a hexagonal base. For every graduated cylinder or mixing cylinder the batch number as well as an attached batch certificate per original package is available. On request Brand´s cylinders are also obtainable with an individual certificate, USP certificate or DAkkS calibration certificate. Detailed descriptions of the glass products are listed in the following. Thereby the cylinders are categorized: graduated cylinders Blaubrand (type 1), graduated cylinders Blaubrand with certificate (type 2), graduated cylinder Blaubrand Eterna (type 3) and mixing cylinder with pp stopper (type 4). Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders Blaubrand 5 0,1 0,05 USP 115 250 2 1,0 USP 335 10 0,2 0,01 USP 140 500 5 2,5 USP 365 25 0,5 0,25 USP 170 1000 10 5 USP 465 50 1 0,5 USP 200 2000 20 10 USP 505 100 1 0,5 USP 260 Graduated cylinders Blaubrand Eterna 5 0,1 - 115 250 2 - 335 10 0,2 - 140 500 5 - 365 25 0,5 - 170 1000 10 - 465 50 1 - 200 2000 20 - 505 100 1 - 260 Volume[ml] Subdivision[ml] GrindingNS Height[mm] Volume[ml] Subdivision[ml] GrindingNS Height[mm] Mixing cylinders 10 0,2 10/19 160 250 2 29/32 350 25 0,5 14/23 190 500 5 34/35 395 50 1 19/26 220 1000 10 45/40 500 100 1 24/29 285 * only valid for products with certificate Synthetics Besides graduated cylinders made from glass Brand also offers products from the synthetics PP and PMP. Manufacturing takes place according to DIN 12 681 and ISO 6706. Thereby the graduated cylinders are adjusted to "in".The max. thermal load is declared to 80 °C for the synthetic PP. At this max. temperature no permanently exceeded error limits are caused. Cleaning up to max. 60 °C is recommended to preserve marks and inscriptions.For the material PMP Brand declares that a thermal load up to 121 °C, which is needed for autoclave, does not cause permanently exceeded error limits. As for PP cleaning up to max. 60 °C is recommended to preserve marks and inscriptions. For applications, which require more frequent autoclave, PMP graduated cylinders with raised graduation are advised.Graduated cylinders made from PP are available with a tall shape as well as with small shape. Furthermore, first is distinguished between normal and raised graduation. In comparison, PMP graduated cylinders are offered with a tall shape exclusively, whereby cylinders with a normal graduation on the one hand and a raised graduation on the other hand are available. On request PMP cylinders can be delivered with a batch certificate. Detailed descriptions about synthetic graduation cylinders can be found in the following. Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders, PP, tall shape with graduation/raised graduation 10 0,2 0,20 145 250 2 2,0 315 25 0,5 0,5 170 500 5 5 360 50 1 1,0 200 1000 10 10 440 100 1 1,0 250 2000 20 20 535 Graduated cylinders, PP, small shape with raised graduation 25 0,5 0,5 - 250 5 5,0 5,0 - 50 1,0 1,0 - 500 10 10 - 100 2 2,0 - 1000 20 20 - Graduated cylinders, PMP, tall shape with graduation/raised graduation 10 0,2 0,20 145 250 2 2,0 315 25 0,5 0,5 170 500 5 5 360 50 1 1,0 200 1000 10 10 440 100 1 1,0 250 2000 20 20 535 Graduated cylinders, PMP, tall shape with graduation and hatch certificate 10 0,2 0,10 145 250 2 1,0 315 25 0,5 0,25 170 500 5 5 360 50 1 0,5 200 1000 10 5 440 100 1 0,5 250 2000 20 10 535 Nalgene Thermo Scientific - Graduated Cylinders Nalgene Thermo Scientific offers synthetic graduated cylinders made from the materials PP and PMP. These product ranges are completely available at the analytics-shop.com. Thereby it is distinguished between the following classifications, PP grad. cylinders (type 1), economic PP grad. cylinders (type 2), PMP grad. cylinders (type 3) and economic grad. cylinders (type 4). Detailed descriptions for every type can be found in the following. PP Graduated Cylinders (Type 1) Graduated cylindrs of Nalgene Thermo Scientific made from PP are characterized by a wide spout as well as a blue pedestal. The graduation is incorporated. The cylinders are suited for chemical sterilization and food as well as drinks. Economic PP Graduated Cylinders (Type 2) These PP graduated cylinders offer an excellent chemical resistance. Additionally, the cylinders are manufactured with a wide spout for an easy dispense of liquids as well as with an easily readable, permanent and abrasion-resistant graduation. PMP Graduated Cylinders (Type 3) Using these PMP graduation cylinders the precision requirements according to ASTM class B, E1272 and CFR21, part 177.1520 are fulfilled. All sizes are made with a wide spout and an incorporated, abrasion-resistant graduation. A big blue pedestal avoids tipping. These cylinders made from PMP are suited for chemical sterilization and food as well as drinks. Economic PMP Graduated Cylinders (Type 4) These PMP cylinders offer an extraordinary chemical resistance as well as transparency and shock resistance. Furthermore the cylinders are characterized by a wide spout for an easy despende of liquids as well as with an easily readable, permanent and abrasion-resistant graduation. Volume[ml] Subdivision[ml] Error Limit[+/- ml] Volume[ml] Subdivision[ml] Error Limit[+/- ml] PP/PMP graduated cylinders 10 0,2 0,20 500 5 4,0 25 0,5 0,34 1000 10 6,0 50 1 0,50 2000 20 12,0 100 1 1,0 4000 50 29,0 250 2 2,0 Economic PP/PMP graduated cylinders 10 0,2 - 250 2 - 25 0,5 - 500 5 - 50 1 - 1000 10 - 100 1 - Vitlab - Graduated Cylinders Graduated Cylinders of Vitlab are available in various configurations. The materials used for production are PP, PMP and SAN. Detailed information about graduated calinders manufactured from the corresponding materials can be found in the following. PP Graduated Cylinders Vitlab´s graduated cylinders made from PP are highly transparent and adjusted to "in". The error limit meets the requirements of class B according to DIN 12681 and ISO 6706. Thereby thermal load up to a max. temperature of 80 °C are possible without causing permanently exceeded error limits. 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Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Volume[ml] Subdivision[ml] Error Limit[+/- ml] Height[mm] Graduated cylinders, SAN, class B, small shape, raised grad. 25 0,5 0,5 122 250 5,0 5,0 192 50 1,0 1,0 142 500 10 10 218 100 2,0 2,0 163 1000 20 20 285 Here you can go back to the products.

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