



# Sludge & Slurry



All it takes for  
environmental  
research



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## P3 SLUDGE & SLURRY

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P3.01

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# SAMPLERS FOR (LAYERED) LIQUIDS

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P3.01

Sampling chemical waste and chemicals sets specific requirements regarding material quality and operation of the sampling equipment. The liquid layer sampler and the sampler for oil separators are instruments that are ideal for sampling heterogeneous and layered fluids. The plunging siphons are suitable for homogeneous fluids.

## 12.40 Liquid layer sampler, rod-operated

This translucent teflon and stainless steel sampler is specially suitable for the indication of layers, measuring the thickness of the floating layer and the sampling of drums, tanks on lorries, gully holes and shallow oil separators. With the liquid layer sampler also depth specific samples can be taken. The translucent sample tube allows for immediate research in the field of for instance the thickness of the layers in the sample. The sample taken can be safely transported in the sample tube which is placed in the liquid proof transport tube. Applying the silicone piston provided it is also possible to sample thicker, viscous fluids or even a sludge layer while

maintaining the thickness of the layers. The set contains: teflon sample tubes of different lengths, operating rods with knob and adjustable piston, transport tubes, top- and bottom stops and a sturdy carrying bag.

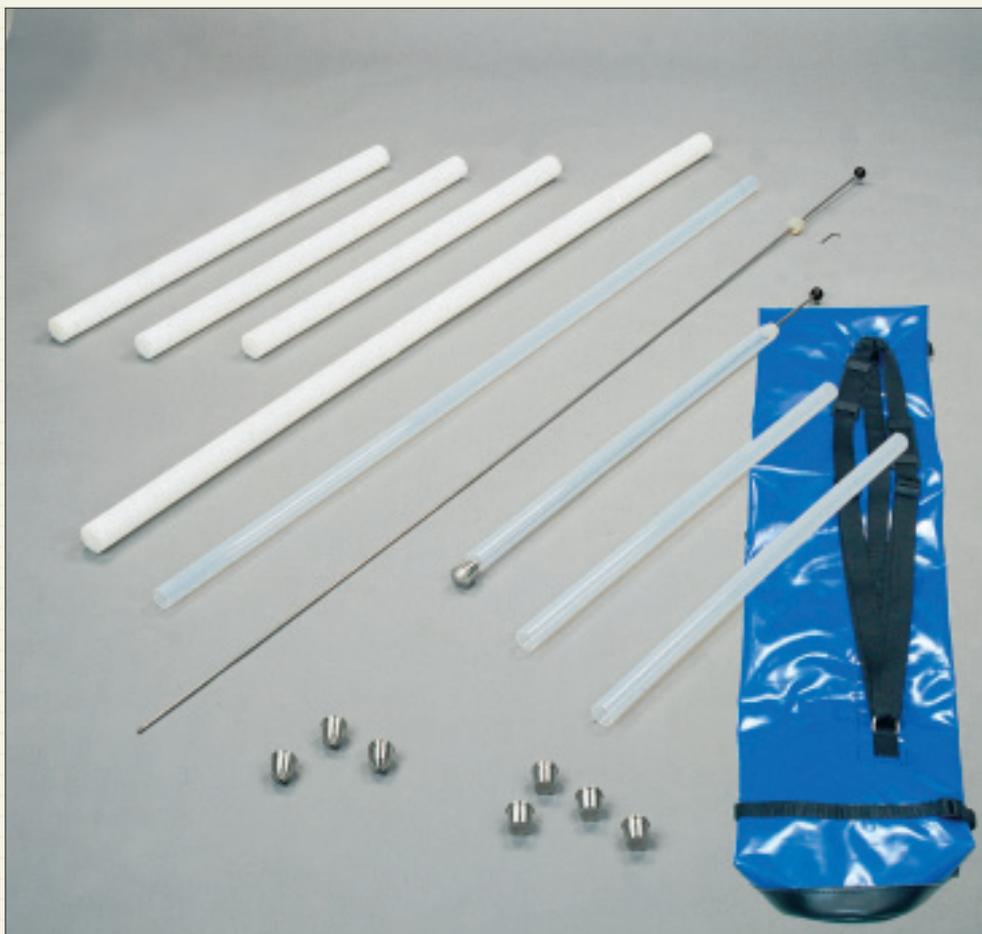
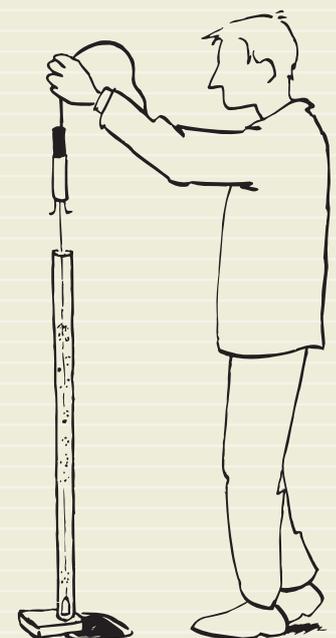
## 12.41 Liquid layer sampler, cable-operated

This translucent teflon and stainless steel sampler is specially suitable for sampling and accurately making visible the layers in deeper containers, basins, monitoring wells with a diameter exceeding 38 mm, etc. The sample can be transported without disturbance in the transport tube. The cable-operated liquid layer sampler can not be used in thick, viscous fluids. After sampling, the thickness of the sludge- and floating layers can be measured, as, in the translucent tube, these are visible in the original position and thickness. The teflon tube can be cleaned easily and effectively. The standard set contains: teflon sample tubes, operating rod with clip, drop weight, teflon control cable, top- and bottom stops, transport tubes and a sturdy carrying bag.

Chemicals and/or residual substances in a drum are sampled using a liquid layer sampler.



The cable-operated liquid layer sampler is used to take a sample from a monitoring well.

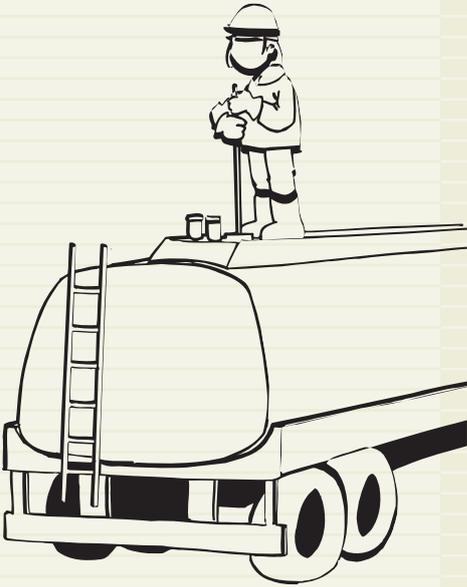


Liquid layer sampler, rod operated

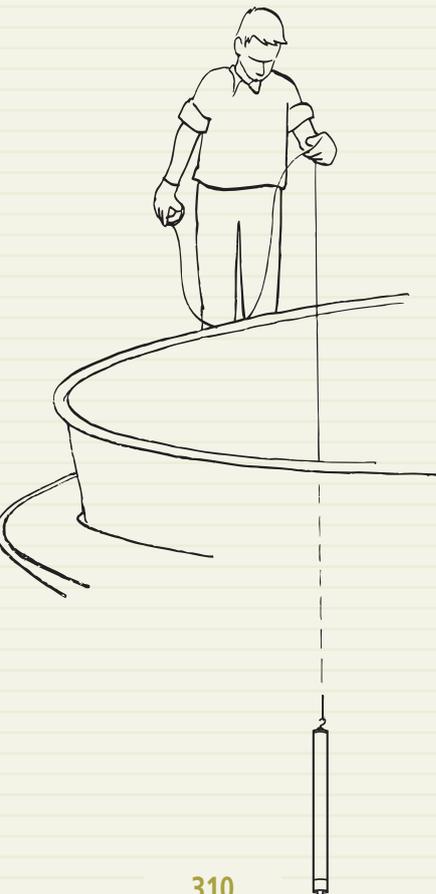


P3.01

Using the plunging siphon a sample is taken from a tank lorry.



When the tank bottom sampler touches the bottom it is filled with the liquid from the bottom.



## SAMPLERS FOR (LAYERED) LIQUIDS

### 12.45 Sampler for oil separators

The sampler for oil separators, regarding its operating principle, is similar to the cable-operated liquid layer sampler. The sampler is fitted with a longer teflon tube and additionally it has a measuring tape (in stead of a cable) and a spark-free messenger.

The sampler is transported, inclusive of the measuring tape, in the practical transport tube.

Using a special wiper (with control rod) the sample tubes can be cleaned on the inside. The sampler is used for the identification of oil thickness in large oil separators in garages, workshops, industry and in the food- & catering industry, etc.

### 12.18 Teflon plunging siphons

The plunging siphon is a very simple instrument for sampling of homogeneous fluids from vessels, tanks, containers (for instance tank lorries) and basins.

As glass plunging siphons tend to break easily the unbreakable translucent teflon is applied. The inert

teflon is not affected by chemicals avoiding the sample to be contaminated by the equipment. The plunging siphon is heat resistant to a temperature of 250°C.

After removal of the narrowing cones a plunging siphon can be cleaned easily. The plunging siphons are supplied in a long (180 cm) and a short (90 cm) design inclusive narrowing cones for liquids with different viscosity, and with a protective tube.

### 12.47 Tank bottom sampler

The tank bottom sampler is made of stainless steel. The sampler is used for indicative sampling of liquids on the bottom of a reservoir (one cable) or higher (two cables). This stainless steel sampler is constructed in such a way that when it touches the bottom of a tank or reservoir it will be filled with liquid from the bottom of that tank. It is only for indication.

The sampler has a length of 39 cm and a diameter of 28 mm, contents 110 ml.



Sample tubes with messenger



Plunging siphon with narrowing cone



Sample tubes with bottom stop



Tank bottom sampler



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
<b>Samplers for (layered) liquids (P3.01)</b>					
	<p><b>Sampling of chemical waste and chemicals must be executed with special designed samplers.</b></p> <p><b>For sampling of heterogeneous fluids use can be made of the liquid layer samplers and the sampler for oil separators.</b></p> <p><b>The rod-operated liquid layer sampler has been included in a standard set. It is specially suitable for the indication of layers, measuring the thickness of a floating layer and the sampling of drums, tanks, gully holes and shallow oil separators. It can also be used to take depth specific samples.</b></p>		<p>tube, Ø 35 mm, length 90 cm, contents 0.67 l</p> <p>**12.41.11 Operating rod with clip and drop weight, incl. 5 m Teflon coated cable (incl. protective cover)</p> <p>**12.40.21 Transport tube for sample tube Ø 35 mm, length 90 cm, natural HDPE</p> <p>**12.40.31 Bottom stop, stainless steel, for sample tube Ø 35 mm</p> <p>**12.40.32 Top stop, stainless steel, for sample tube Ø 35 mm</p> <p>**01.14 Carrying bag for field equipment, with two shoulder straps (backpack model), (inside) Ø 17x150 cm,</p>	<p>1</p> <p>3</p> <p>3</p> <p>3</p> <p>1</p>	
<b>12.40</b>	<b>Liquid layer sampler, rod operated. Standard set</b>		<b>12.45</b>	<b>Sampler for oil separators. Standard design for sampling to a depth of ca. 6.5 m. Complete with teflon sampling tube (Ø 35 mm, length 150 cm), measuring tape, wiper and transport tube</b>	
**12.40.01	Translucent teflon sample tube, Ø 35 mm, length 90 cm, contents 0.67l	3		<b>For sampling homogeneous liquids in vessels, tanks and basins use can be made of plunging siphons.</b>	
**12.40.04	Translucent teflon sample tube, Ø 35 mm, length 180 cm, contents 1.37 l	1	<b>12.18</b>	<b>Plunging siphons</b>	
**12.40.11	Operating rod with knob and adjustable/removable Teflon piston, length 110 cm (incl. protective cover)	1	12.18.02	Plunging-siphon, translucent teflon, Ø 19x16 mm, length 90 cm, contents 0.17 l, with 2 removable narrowing cones with inflow openings for liquids with various viscosities, incl. protective tube	
**12.40.14	Operating rod with knob and adjustable/removable Teflon piston, length 220 cm (incl. protective cover)	1	12.18.04	Plunging-siphon, translucent teflon, Ø 19x16 mm, length 180 cm, contents 0.355 l, with two removable narrowing cones with inflow openings for liquids with various viscosities, incl. protective tube	
**12.40.21	Transport tube for sample tube Ø 35 mm, length 90 cm, natural HDPE	3	12.18.12	Plunging-siphon, polypropylene, disposable. Diameter 12 mm, thickness of wall 0.5 mm. Length 107 cm, volume (max.) 100 ml. Set of 50 pieces	
**12.40.24	Transport tube for sample tube Ø 35 mm, length 180 cm, natural HDPE	1		<b>For depth specific sampling on the bottom of a reservoir:</b>	
**12.40.31	Bottom stop, stainless steel, for sample tube Ø 35 mm	4	<b>12.47</b>	<b>Tank bottom sampler, stainless steel 304. For indicative sampling of liquids on the bottom of a reservoir (1 cable) or higher (2 cables). Length 39 cm, Ø 28 mm, contents 110 ml, weight 711 gram</b>	
**12.40.32	Top stop, stainless steel, for sample tube Ø 35 mm	4			
**01.14	Carrying bag for field equipment, with two shoulder straps (backpack model), (inside) Ø 17x150 cm	1			
	<b>The set with the cable-operated liquid layer sampler is specially suitable for sampling and accurately making visible the layers in deeper tanks, basins and monitoring wells with a Ø exceeding 38 mm. The sampler can not be used in thick, viscous fluids.</b>				
<b>12.41</b>	<b>Liquid layer sampler, cable operated, standard set</b>				
**12.40.01	Translucent teflon sample	3			