

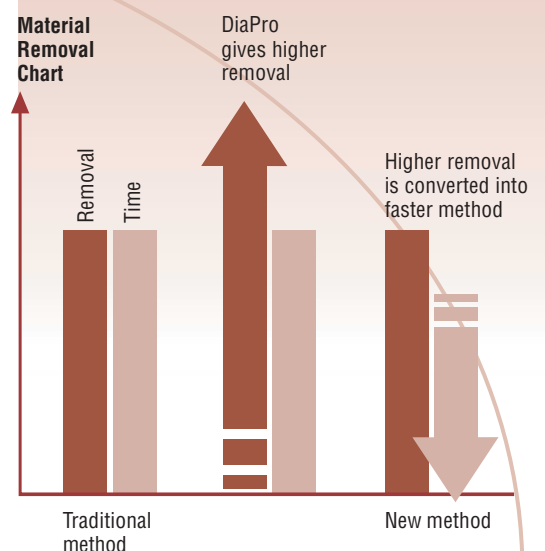
**Fast and
cost-efficient
sample
preparation**

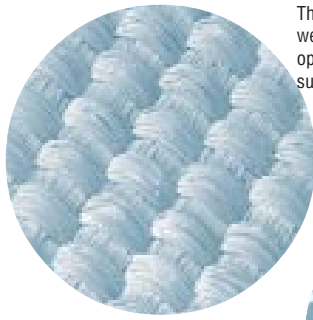


DiaPro are unique diamond suspensions that make materialographic sample preparation faster, more cost-efficient and much easier.

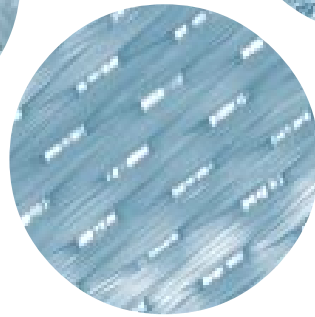
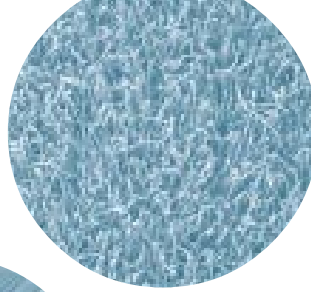
A new innovative approach has resulted in the development of these surface-specific diamond suspensions, which bring you revolutionary benefits:

- Preparation time can be reduced by 30% on average
- Sample throughput can be increased significantly
- Remarkable cost reductions can be achieved
- Excellent and highly reproducible preparation results are guaranteed
- Run-in time on new cloths is practically eliminated
- Easy to use all-in-one suspensions including cooling lubricant
- Water-based and without any solvents – the environmental-friendly choice
- Automatic dosing systems with peristaltic pumps can be used





The DiaPro suspensions were developed and optimised for the different surface compositions



Excellent and reproducible preparation results

DiaPro makes materialographic sample preparation much easier. The unique mixture of diamond suspension and cooling lubricant ensures a constant dosing ratio between diamonds and lubricant, giving you cost-efficient and reproducible preparation results. At the same time unsurpassed preparation results are achieved.

The innovative approach to sample preparation

An efficient sample preparation has many determinants, such as the material type, the grinding and polishing surface and the diamonds and lubricants applied. Extensive tests have shown that the composition of the surface, such as the polishing textile, has a remarkably high influence on the efficiency of the diamond suspensions used.

The DiaPro suspensions have therefore been developed for use on specific grinding and polishing

surfaces. Each DiaPro suspension has been optimised for a specific purpose, and the results are outstanding.

Reduce your preparation time by 30%

The outstanding efficiency of the DiaPro suspensions results in very high material removal compared to the results achieved with traditional polycrystalline diamond suspensions. Consequently, the higher material removal obtained with DiaPro allows the preparation time to be reduced accordingly.

Generally, the total preparation time can be reduced by 30% on average. However, this will depend on the material and the individual preparation method. The possible time reduction will vary from 20% to 60%.

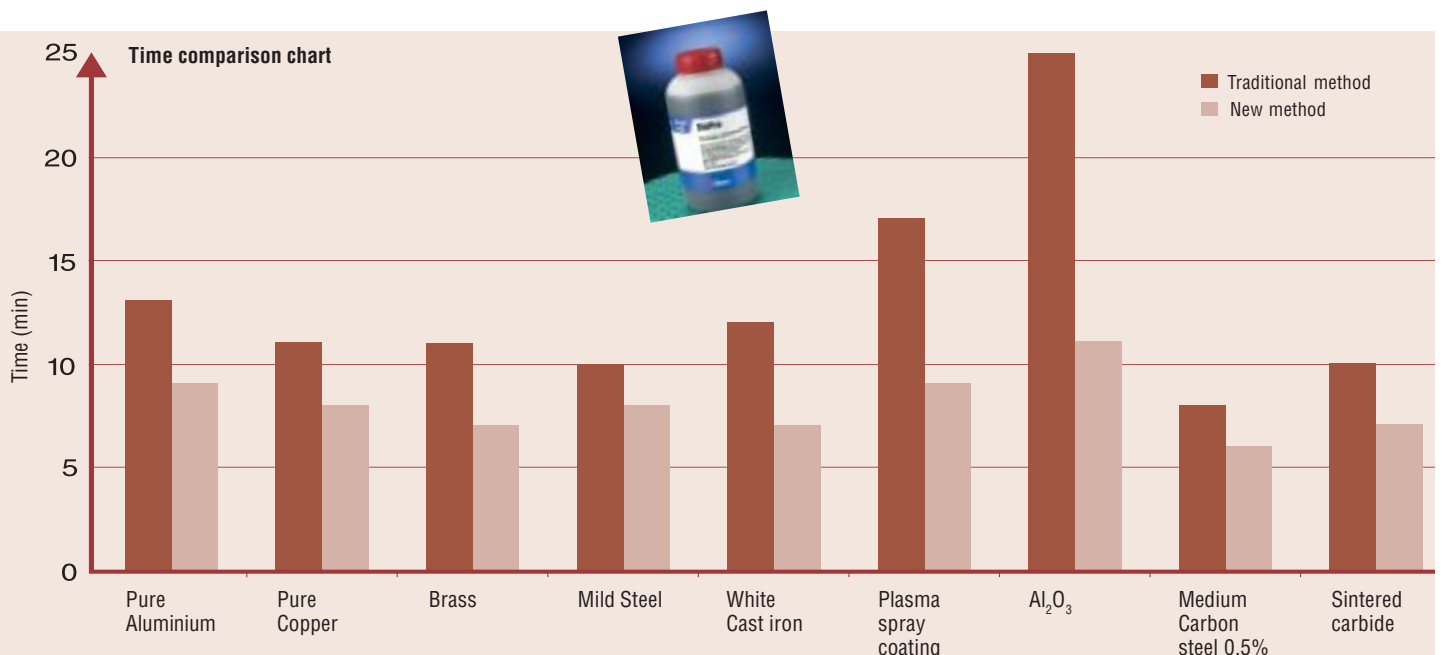
In addition to faster preparation methods, DiaPro practically eliminates the run-in time on new polishing cloths. Where some cloths traditionally need 5-15 min. run-in time, the new DiaPro suspensions start working in less than a few minutes.

Time and cost saving solutions

The winning combination of DiaPro suspensions and Struers grinding and polishing surfaces lets you save time as well as costs.

An average time reduction of 30% can be utilised in different ways:

- You can convert the 30% time savings into an increase in sample throughput or
- You can convert the 30% time savings into a reduction in labour costs and
- you achieve a 30% faster response time, which again saves time and costs in other departments in the company.



			PG	FG	DP	OP
Method A Al 99,5 sand cast		Surface	SiC-Paper (on MD-Fuga)	MD-Largo	MD-Mol	MD-Chem or MD-Nap
		Abrasive, Grit/Grain	SiC # 320	DiaPro AllegroLargo	DiaPro Mol	OP-U or OP-S
Method B Cu pure		Surface	MD-Primo 220	MD-Largo	MD-Mol	MD-Chem or MD-Nap
		Abrasive, Grit/Grain	SiC	DiaPro AllegroLargo	DiaPro Mol	OP-U or OP-S
Method C Cu 58 Zn 42		Surface	MD-Primo-220	MD-Largo	MD-Dac	MD-Chem or MD-Nap
		Abrasive, Grit/Grain	SiC	DiaPro AllegroLargo	DiaPro Dac	OP-U or OP-S
Method D Mild Steel		Surface	MD-Piano 220	MD-Allegro	MD-Dac	MD-Chem
		Abrasive, Grit/Grain	Diamond	DiaPro AllegroLargo	DiaPro Dac	OP-AA
Method E White cast iron		Surface	MD-Piano 220	MD-Allegro	MD-Dur	MD-Chem or MD-Nap
		Abrasive, Grit/Grain	Diamond	DiaPro AllegroLargo	DiaPro Dur	OP-U or DiaPro Nap B
Method F WC in Cu matrix		Surface	MD-Piano 120	MD-Allegro	MD-Dac	MD-Chem
		Abrasive, Grit/Grain	Diamond	DiaPro AllegroLargo	DiaPro Dac	OP-U or OP-S
Method G Al ₂ O ₃		Surface	MD-Piano 220	MD-Plan		MD-Chem
		Abrasive, Grit/Grain	Diamond	DiaPro Plan		OP-U or OP-S
Method X MgAl alloy		Surface	SiC Paper	MD-Largo	MD-Mol	
		Abrasive, Grit/Grain	SiC # 320	DiaPro AllegroLargo	DiaPro Mol	
Method Y Medium carbon steel		Surface	MD-Piano 220	MD-Allegro	MD-Plus	
		Abrasive, Grit/Grain	Diamond	DiaPro AllegroLargo	DiaPro Plus	
Method Z Sintered carbide with coatings		Surface	MD-Piano 120	MD-Allegro	MD-Dac	
		Abrasive, Grit/Grain	Diamond	DiaPro AllegroLargo	DiaPro Dac	

Preparation methods overview

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preparation methods

lubricant has already been calculated for you. The necessary amount of diamonds is automatically applied when you use the easy dosing principle: "Only use as much DiaPro as is needed to achieve the correct level of lubrication".

Automatic dosing

DiaPro can be used in equipment and dosing systems equipped with peristaltic pumps, e.g. in Prepamatic-2, AbraPol-10 and Struers' fully automatic dosing systems, Multidoser and TegraDoser-5.

In combination with the TegraDoser-1 dosing unit, DiaPro offers a simple way of achieving complete control over all preparation parameters and not just the dosing level.

We care about the working environment

DiaPro suspensions are purely water-based and do not contain solvents. They are classified as non-toxic and thus the environmental-friendly choice of consumable. The products are extremely stable and do not settle, ensuring high quality and reproducibility.

Removable label

The bottle label is provided with a removable tab. If you need to pour some of the suspension into another non-transparent dosing bottle, the removable tab can be used to code the bottle.



Economical in use – no more overdosing

The all-in-one concept means that the optimal mixing ratio of high-performance diamonds and lubricants has been selected carefully and combined into one product. You no longer need to worry about applying enough or overdosing the diamonds. Based on extensive research at Struers, the optimal ratio of diamonds and

The winning combination of DiaPro and TegraDoser-1 lets you control the entire preparation method just by changing the dosing unit

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Specifications	Code
DiaPro Diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Net weight 500 ml Gross weight 600 g	
DiaPro Allegro/Largo For fine grinding on MD-Allegro and MD-Largo	SOALL
DiaPro Plan For fine grinding on MD-Plan and DP-Plan	SOPLA
DiaPro Largo For polishing on MD-Largo	SOLAG
DiaPro Mol For polishing on MD-Mol and DP-Mol	SOMOL
DiaPro Dur For polishing on MD-Dur and DP-Dur	SODUR
DiaPro Dac For polishing on MD-Dac and DP-Dac	SODAC
DiaPro Plus For polishing on MD-Plus and DP-Plus	SOPLU
DiaPro Nap B For polishing of hard materials (>150 HV) on MD-Nap and DP-Nap	SONAB
DiaPro Nap R For polishing of soft materials (<150 HV) on MD-Nap and DP-Nap	SONAR
Dosers For manual dosing	
Dosing Gun with 500 ml	DOSIL
Squeeze bottle 250 ml	DOSES
<i>For information on automatic dosing systems please require separate leaflet.</i>	



*Struers' products are subject to constant product development.
Therefore, we reserve the right to introduce changes in our products without notice.*