

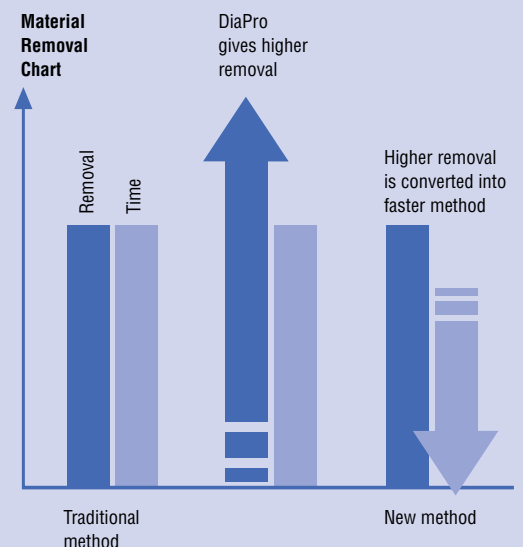


A new innovative approach has resulted in the development of these surface-specific diamond suspensions, which bring you revolutionary benefits:

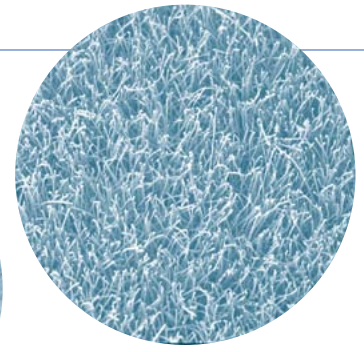
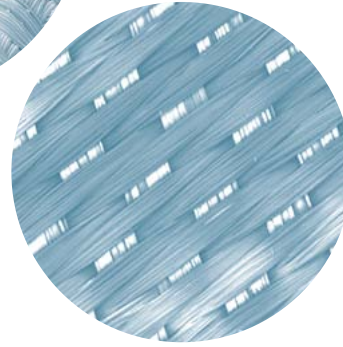
- Preparation time can be reduced by 30% on average
- Sample throughput can be increased significantly
- Remarkable cost reductions can be achieved
- Excellent and highly reproducible preparation results are guaranteed
- Run-in time on new cloths is practically eliminated
- Easy to use all-in-one suspensions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

Fast and cost-efficient sample preparation.

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



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 eliminate the run-in time on new polishing cloths. Some cloths traditionally need 5-15 min. run-in time, but with the new DiaPro suspensions cloths start working in less than a few minutes.

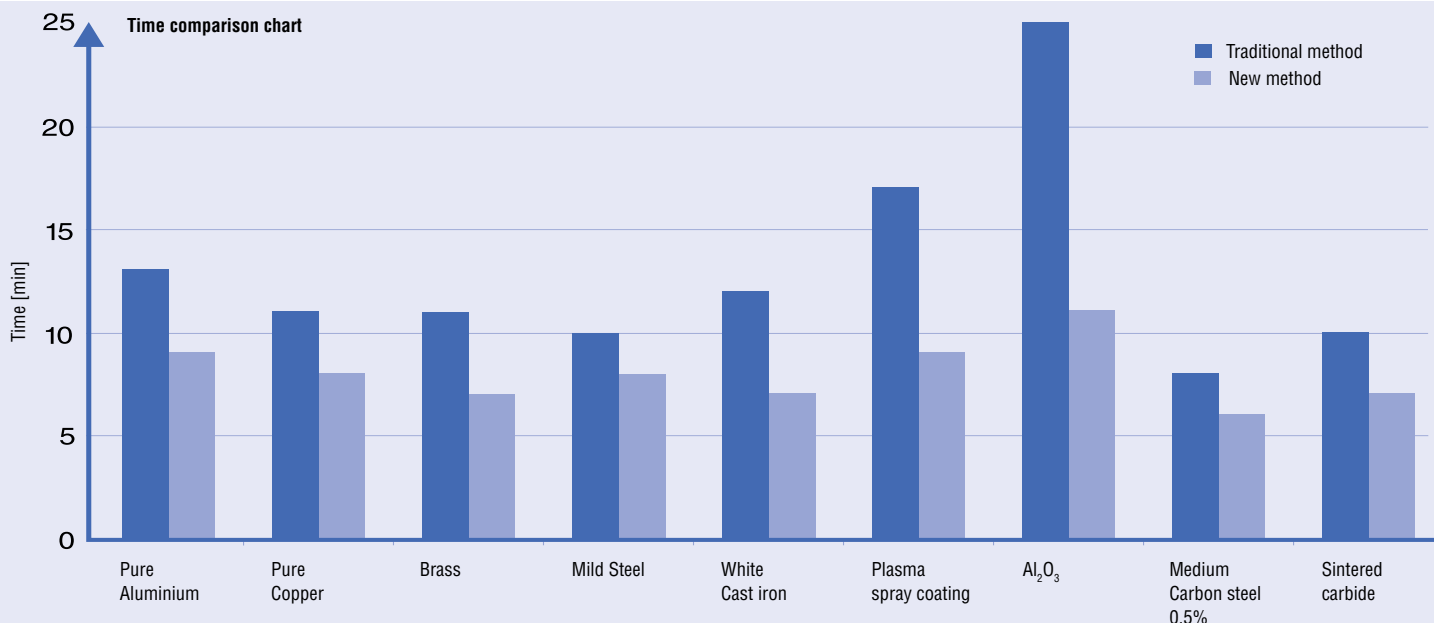
Time and cost saving solutions

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 two 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.

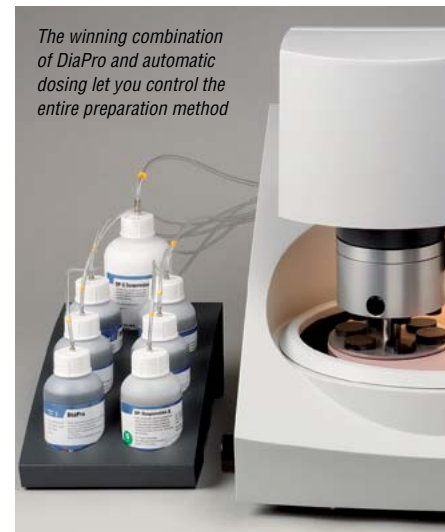
In any case, you achieve a 30% faster response time, which again saves time and costs in other departments in the company.



			PG	FG	DP	OP
Method A Al 99.5 sand cast		○ Surface	SiC Foil (on MD-Gekko)	MD-Largo	MD-Mol	MD-Chem or MD-Nap
		▲ Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo	DiaPro Mol	OP-U or OP-S
Method B Cu pure		○ Surface	SiC Foil	MD-Largo	MD-Mol	MD-Chem or MD-Nap
		▲ Abrasive, Grit/Grain	SiC	DiaPro Allegro/Largo	DiaPro Mol	OP-U or OP-S
Method C Cu 58 Zn 42		○ Surface	SiC Foil	MD-Largo	MD-Dac	MD-Chem or MD-Nap
		▲ Abrasive, Grit/Grain	SiC	DiaPro Allegro/Largo	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 Allegro/Largo	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 Allegro/Largo	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 Allegro/Largo	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 Foil (on MD-Gekko)	MD-Largo	MD-Mol	
		▲ Abrasive, Grit/Grain	SiC # 320	DiaPro Allegro/Largo	DiaPro Mol	
Method Y Medium carbon steel		○ Surface	MD-Piano 220	MD-Allegro	MD-Plus	
		▲ Abrasive, Grit/Grain	Diamond	DiaPro Allegro/Largo	DiaPro Plus	
Method Z Sintered carbide with coatings		○ Surface	MD-Piano 120	MD-Allegro	MD-Dac	
		▲ Abrasive, Grit/Grain	Diamond	DiaPro Allegro/Largo	DiaPro Dac	

Preparation methods overview

10 Metalog Guide preparation methods



*The winning combination
of DiaPro and automatic
dosing let you control the
entire preparation method*

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 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.

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.



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Specifications	Cat. no.
DiaPro DiaPro are unique diamond suspensions for faster, more cost-efficient and much easier materialographic specimen preparation. Each single DiaPro suspension has been developed and optimized for use on specific grinding and polishing surfaces.	
DiaPro Pan 15 µm For pre-polishing on MD-Pan and DP-Pan 500 ml 5 l	40600375 40600376
DiaPro Allegro/Largo 9 µm For fine grinding on MD-Allegro and MD-Largo 500 ml 5 l	40600369 40600370
DiaPro Plan 9 µm For fine grinding on MD-Plan and DP-Plan 500 ml 5 l	40600271 40600290
DiaPro Sat 6 µm For polishing on MD-Sat and DP-Sat 500 ml 5 l	40600377 40600378
DiaPro Largo 3 µm For polishing on MD-Largo 500 ml 5 l	40600272 40600291
DiaPro Mol B 3 µm For polishing of hard materials (>150 HV) on MD-Mol and DP-Mol 500 ml 5 l	40600379 40600380
DiaPro Mol 3 µm For polishing of soft materials (<150 HV) on MD-Mol and DP-Mol 500 ml 5 l	40600273 40600292
DiaPro Dur 3 µm For polishing on MD-Dur and DP-Dur 500 ml 5 l	40600274 40600293
DiaPro Dac 3 µm For polishing on MD-Dac and DP-Dac 500 ml 5 l	40600371 40600372
DiaPro Plus 3 µm For polishing on MD-Plus and DP-Plus 500 ml 5 l	40600276 40600295
DiaPro Flocc 3 µm For polishing on MD-Flocc and DP-Flocc 500 ml 5 l	40600365 40600366
DiaPro Dur 1 µm For polishing on MD-Dur and DP-Dur 500 ml 5 l	40600381 40600382
DiaPro Nap B 1 µm For polishing of hard materials (>150 HV) on MD-Nap and DP-Nap 500 ml 5 l	40600373 40600374
DiaPro Nap R 1 µm For polishing of soft materials (<150 HV) on MD-Nap and DP-Nap 500 ml 5 l	40600278 40600279
DiaPro Nap ¼ µm For polishing on MD-Nap and DP-Nap 500 ml 5 l	40600383 40600384
Dosers For manual dosing	
Dosing Gun with 500 ml	40700031
Squeeze bottle 250 ml	40700032
For information on automatic dosing systems please require separate leaflet.	

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