

DP Diamond Products



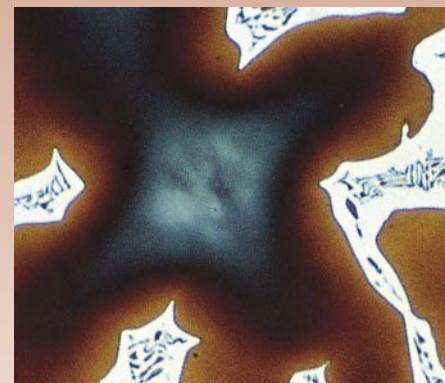
**Diamond
- the hardest
known abrasive**



Struers Diamond Products are suited for all areas of materialographic specimen preparation. The availability of different product types allows for any type of preparation, from manual to fully automatic

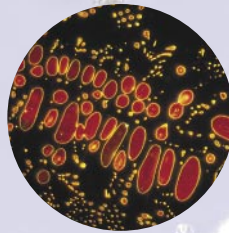
When working with materialographic preparation the two most important factors will often be time and reproducibility. The preparation requires more than advanced equipment to obtain what you need; the choice of consumables is essential as high quality preparation and reproducible results can only be achieved using the very best of consumables.

Materialographic sample preparation makes strict demands for high reproducibility, as results have to be comparable from one preparation process to the next. Diamonds are the fastest way to obtain a perfect surface every time. They efficiently remove scratches caused by grinding without causing excessive deformation to or smearing of the microstructure.



- With Struers' products you will find the tightest grading specifications in the industry - a critical consideration in a process where microns make the difference between preparation success and failure
- A wide variety of diamond suspensions, sprays, sticks and paste means always having the best possible products for your specific application
- A high concentration of diamonds lets you adjust the diamond-to-lubricant balance to specific needs, for less waste and better performance at a reasonable cost

- Struers DP Diamond Products, P provide faster removal rates and a finer finished surface due to the polycrystalline properties
- Non-settling stable suspensions with thixotropic characteristics are ideally suited for automated systems
- Struers DP Products are environmentally safe as none of them contain Freon (CFC)
- All suspensions are non-toxic, non-combustible and water-based



Tailored to Superior Results

Struers DP Diamond Products are precisely tailored to materialographic requirements. Our superior quality pervades all parts of the preparation process. Starting with our scientific approach to development and knowledge of the raw materials to controlling all aspects of the production: the careful selection of diamond type, grading of grain size and formulation of the individual products means you will have superior, satisfactory results which again means improved cost and time efficiency.

Automatic Dosing

Materialographic sample preparation requires exact dosing of abrasive and lubricant at all times to obtain reproducible results. The amount of applied abrasive depends on the grinding/polishing surface and the hardness of the specimens. Struers' suspensions can all be used for automatic dosing, ensuring an optimal reproducibility while saving your time,

as you need not watch the dosing. The graph below shows the variations, which may occur between dosing with automatic equipment and manual dosing.

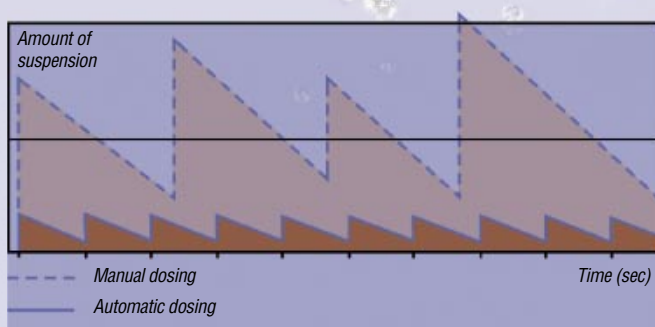
For the best performance it can be crucial to keep the amount of both abrasive and lubricant as uniform as possible.

Our full range of DP Diamond Products allows you to carefully adjust the quantity of diamond you add in relation to lubricant. This means adjusted and controlled use of abrasive while making sure your results meet all demands for reproducibility.

Our DP Diamond Products can be divided into polycrystalline (P-Type) for the highest quality materialographic preparation and monocrystalline (M-Type). M-Type is best suited for all-purpose grinding and polishing for economical, routine preparation. All variations (except stick) listed below come in both P-types and M-types.

Types of Diamonds

We offer a complete range of diamond products for fine grinding and polishing of materialographic specimens, including suspensions, sprays, sticks and pastes. Diamond grain sizes and shapes are controlled in very tight tolerances to ensure optimal polishing results at the lowest cost.



Specifications

DP-Suspension, P

High performance diamond product containing exclusively polycrystalline diamonds. Stable suspension, designed for automatic dosing equipment. Water-based

	15 µm	9 µm	6 µm	3 µm	1 µm	¼ µm
125 ml			SEPEX	SEPTE	SEPON	
250 ml	SAPFI	SAPNI	SAPEX	SAPTE	SAPNO	SAPUQ
2.5 l	SPUFI	SPUNI	SPUEX	SPUTE	SPUON	SPUQU

DP-Suspension, M

High performance diamond product containing monocrystalline diamonds. Stable suspension, designed for automatic dosing equipment. Water-based

	15 µm	9 µm	6 µm	3 µm	1 µm
250 ml	SAMFI	SAMNI	SAMEX	SAMTE	SAMNO
2.5 l	SMUFI	SMUNI	SMUEX	SMUTE	SMUON

DP-Spray, P

High performance diamond product containing exclusively polycrystalline diamonds. In spray can, net 150 ml

	45 µm	25 µm	15 µm	9 µm	6 µm	3 µm	1 µm	¼ µm
150 ml	SPRIR	SPRAM	SPRUF	SPRAC	SPRIX	SPRET	SPRON	SPRYT

DP-Spray, M

High performance diamond product containing monocrystalline diamonds. In spray can, net 150 ml

	15 µm	9 µm	6 µm	3 µm	1 µm
150 ml	SMAUF	SMAAC	SMAIX	SMAET	SMAON

DP-Stick, P

High performance diamond product containing exclusively polycrystalline diamonds. Stick format applicator, net 24 g

	15 µm	9 µm	6 µm	3 µm	1 µm	¼ µm
24 g	KITIF	KITNI	KITEX	KITTE	KITON	KITQU

DP-Paste, P

High performance diamond product containing exclusively polycrystalline diamonds. In syringe, net 10 g

	15 µm	9 µm	6 µm	3 µm	1 µm	¼ µm
10 g	DIFTE	DININ	DIATE	DEPOA	DEPOB	DEPOC

DP-Paste, M

High performance diamond product containing monocrystalline diamonds. In syringe, net 10 g

	15 µm	9 µm	6 µm	3 µm	1 µm	¼ µm
10 g	SYNOT	SYNNI	SYNXI	SYNTE	SYNSU	SYNTY

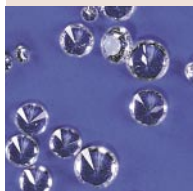
DP-Lubricant

Products	Application	1 L	5 L	10 L
DP-Lubricant, Green	For fine grinding and polishing with diamond Water-based	LUGON	LUGFI	LUGTE
DP-Lubricant, Blue	For fine grinding and polishing with diamond Alcohol-based	DEPTI	DEPIF	DEPTE
DP-Lubricant, Red	For final diamond polishing Water- and oil-based	DEPPO	DEPPI	DEPPE

Constant Improvement

Struers is constantly striving to develop new, environmentally friendly and improved consumables that lead to superior preparation quality, faster results and better cost efficiency. Make your lab more efficient, more productive and more successful with performance products from Struers.

For more information on Struers DP Diamond Products, ask your local Struers representative



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



Struers A/S
Pederstrupvej 84
DK-2750 Ballerup, Denmark
Phone +45 44 600 800
Fax +45 44 600 801
e-mail: struers@struers.dk
www.struers.com



DEUTSCHLAND
Struers GmbH
Karl-Arnold-Strasse 13 B
D-47877 Willich
Telefon +49/(0) 21 54/4 86-0
e-mail: verkauf.struers@struers.de

ÖSTERREICH
Struers GmbH
Zweigniederlassung Österreich
Ginzkeyplatz 10
A-5020 Salzburg
Telefon (0662) 625711
e-mail: stefan.lintschinger@struers.de

SCHWEIZ
Struers GmbH
Zweigniederlassung Schweiz
Weissenbrunnstrasse 41
CH-8903 Birmensdorf
Telefon (01) 77763-07
e-mail: rudolf.weber@struers.de

THE NETHERLANDS
Struers GmbH Nederland
Electraweg 5
NL-3144 CB Maassluis
Tel.: +31 (0) 10 599 72 09
e-mail: glen.van.vugt@struers.de

CZECH REPUBLIC
Struers GmbH
Ocelářská 799
CZ-190 00 Praha 9
Tel. 02 / 84 818 227
e-mail: david.cernicky@struers.de

POLAND
Struers Sp. z o.o.
Oddział w Polsce
ul. Lirowa 27
PL-02-387 Warszawa
Tel.: 022/824 52 80
e-mail: grzegorz.uszynski@struers.de

FRANCE
Struers S. A. S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +33 1 55 09 14 30/31
e-mail: struers@struers.fr

BELGIQUE
Struers S. A. S.
370, rue du Marché Rollay
F- 94507 Champigny
sur Marne Cedex
Téléphone +32 43 70 93 18
e-mail: struers@struers.fr

JAPAN
Marumoto Struers K.K.
Takara 3rd Building
18-6, Higashi Ueno 1-chome
Taito-ku, Tokyo 110-0015,
Phone: +81 3 5688-2914
e-mail: struers@struers.co.jp

SINGAPORE
Struers A/S
10 Eunos Road 8, #12-06 North Lobby
Singapore Post Centre
Singapore 408600
Phone +65 6299 2268
e-mail: struers.sg@struers.dk

UNITED KINGDOM
Struers Ltd.
Erskine Ferry Road, Old Kilpatrick
Glasgow, G60 5EU
Phone 01 389 877 222
e-mail: info@struers.co.uk

USA
Struers Inc.
24766 Detroit Road
Westlake, OH 44145-1598
Phone (888) 787-8377
e-mail: info@struers.com