



diamond needle file three square 140mm D91 (fine) for hard materials



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hard materials**

Item number: [15104061](#)

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Diamond files and sheets are used for tasks where conventional files fail due to the hardness of the material being worked on.

Diamond files and sheets are also used for processing hardened steel. The working temperatures are so low that no chemical wear occurs. This allows the higher hardness of the diamond grain to be exploited for a longer tool life.

Diamond needle files can be used generally in tool making.

Technical information

Grit size	D 91
Length, coating	70 mm
Length, total	140 mm
Shape	Three square
Width	3.5 mm

Recommendations for use

- ✔ Apply only slight pressure to the file, especially in workpiece edge areas.
 - ✔ Loaded diamond files can be cleaned in kerosene or anti-static plastic cleaner with a file brush. Alternatively, ultrasonic cleaning is also possible. Often it will suffice to knock the file against a hard object.
 - ✔ Avoid using grease!
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Ordering notes

- ✓ Customer-specific tool solutions are available on request.

Materials that can be worked

- ✓ Abrasive materials
- ✓ Case-hardened steels
- ✓ Ferrite (magnetic material)
- ✓ Glass
- ✓ Graphite and synthetic carbon
- ✓ Nickel or titanium-based superalloys
- ✓ Steel materials with a hardness > 54 HRC
- ✓ Technical ceramics
- ✓ Tool steels
- ✓ Tungsten carbide

Applications

- ✓ Deburring
- ✓ Finishing
- ✓ Leveling
- ✓ Removing oxide layers
- ✓ Surface work
- ✓ Working on edges
- ✓ Working on edges (chamfering, rounding)

Drive types

- ✓ Manual application
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**PFERD
TOOLS**



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