



Strauss medium sized Needle Files are the most popular files in the Strauss range. Used for grinding different metals and hard materials such as: Tungsten carbide, steels of 40Hrc and harder, ceramic materials, glass etc. A must for any tool and die shop, extruders and repairs of hardened alloys and ceramics.

The NF File has a round shank 3.0mm diameter
 Total length 140mm.
 Diamond coated length 70mm
 Round shank diameter 3.0mm
 Tolerance: Length ± 1.0 mm. Profile ± 0.3 mm.

Individual Diamond Files: Fine Grade

Packed Weight and Dimensions

Code	Description	File width x thickness	Grit Size	Weight g	W mm	H mm	Lmm
NF2162-D91	Round	3mm diameter	D91 (#170/200)	9	4	20	150
NF2142-D91	Square	2.5 x 2.5mm	D91 (#170/200)	8	4	20	150
NF2132-D91	Triangle / 3 Square	3.9mm	D91 (#170/200)	10	4	20	150
NF2152-D91	Half-round	5.4 x 1.9mm	D91 (#170/200)	10	4	20	150
NF2112-D91	Flat / Hand / Equalling	5.1 x 1.4mm	D91 (#170/200)	6	4	20	150

Individual Diamond Files: Medium Grade

Packed Weight and Dimensions

Code	Description	File Head width x thickness	Grit Size	Weight g	W mm	H mm	L mm
NF2162-D126	Round	3mm diameter	D126 (#120/140)	8	4	20	150
NF2142-D126	Square	2.5 x 2.5mm	D126 (#120/140)	10	4	20	150
NF2132-D126	Triangle / 3 Square	3.9mm	D126 (#120/140)	8	4	20	150
NF2152-D126	Half-round	5.4 x 1.9mm	D126 (#120/140)	10	4	20	150
NF2112-D126	Flat / Hand / Equalling	5.1 x 1.4mm	D126 (#120/140)	9	4	20	150

Diamond File Sets



2112 , 2132 , 2142 , 2152 , 2162

5 Piece Diamond File Sets contain the 5 most popular file shapes and are supplied in Fine and Medium grades

Fine Grade Set	Medium Grade Set	File Shape
NF4205-D91	NF4205-D126	
Contains	Contains	
NF2162-D91	NF2162-D126	Round
NF2142-D91	NF2142-D126	Square
NF2132-D91	NF2132-D126	Triangle / 3 Square
NF2152-D91	NF2152-D126	Half-round
NF2112-D91	NF2112-D126	Flat / Hand / Equalling

Packed Weight and Dimensions

Code	Weight g	W mm	H mm	L mm
NF4205-D91	40	47	66	184
NF4205-D126	40	47	66	184

General Information

Diamond is a pure carbon in a cubic structure. It is the hardest of all known materials. Many applications benefit by the use of diamond tools in industry for grinding, turning, sawing, lapping, wear resistance, etc. As it enables faster operating, extended tool's life and allows very accurate tolerances of shape and size. Use in industry are either "natural" diamond extracted from the ground, crushed and shaped to suit a particular requirement, or "synthetic" man made diamond specially for specific application. Diamond is made and graded according to its size, shape, and friability.

Diamond Applications

Diamond is used for cutting or grinding hard, brittle and abrasive materials, but it is not suitable for grinding high carbon-steel. This is because iron has an affinity for carbon (which is what diamond is) at a high temperature.

Diamond tools are used for grinding hard or very abrasive materials, such as:

- Tungsten carbide
- Stone and marble
- Composite materials
- Industrial ceramics
- Re-in forced plastics
- Fiberglass
- Ferrite
- Non-ferrous metals
- Rubber
- Glass