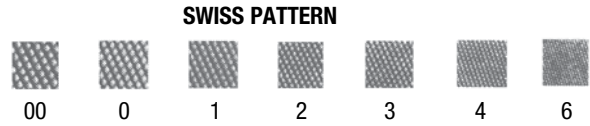


TECH INFORMATION

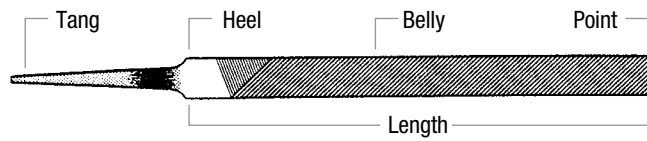
File Terminology

COARSENESS



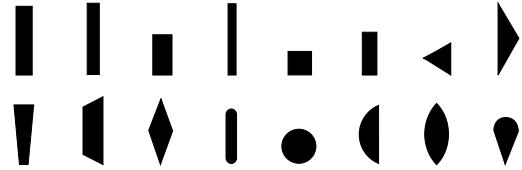
- Work to be accomplished, whether roughing or finishing, will determine type of teeth and coarseness for each application
- Most American pattern files are available with 3 grades of cut: bastard-cut, second-cut and smooth-cut
- Swiss pattern files are available in seven cuts: No. 00, 0, 1, 2, 3, 4, and 6
- The degree of coarseness is greater in longer files, but differences between bastard, second and smooth are proportionate

LENGTH



- Length is measured exclusive of tang, from point to heel, unless specified otherwise
- Desired stroke length, type of material and size will determine length required

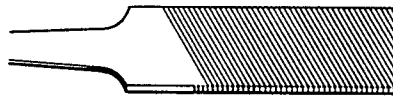
SHAPE



- Area to be filed will determine specific cross-section (round, square, flat, etc.) to be used

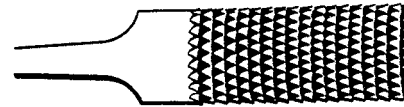
Kinds of Teeth

SINGLE-CUT



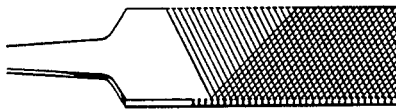
- Single set of parallel, diagonal rows of teeth
- Single-cut files are often used with light pressure to produce a smooth surface finish or to put a keen edge on knives, shears or saws

RASP-CUT



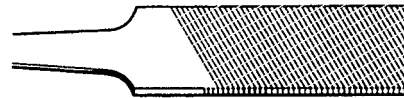
- Series of individual teeth which are formed by a single-pointed tool
- Produces a rough cut that is used primarily on wood, hooves, aluminum and lead

DOUBLE-CUT



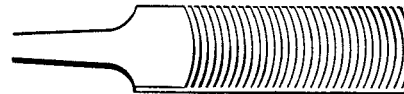
- 2 sets of diagonal rows of teeth
- Second set of teeth cut in opposite diagonal direction and on top of the first set
- First set of teeth is known as the overcut, second is known as upcut
- Upcut is finer than overcut
- Double-cut file is used with heavier pressure than the single-cut and removes material faster from the workpiece

MAGICUT®



- Single cut teeth divided by angular serrations into shorter cutting edges, which free themselves readily from chips and perform roughing and smoothing at the same time

CURVED-CUT



- Teeth arranged in curved contours across the file face
- Curved-cut file is normally used in automotive body shops for smoothing body panels

Safety Information

	<b>⚠ WARNING</b> Wear safety goggles to protect your eyes. Never use a file without a tight fitting handle.
	<b>⚠ AVERTISSEMENT</b> Porter des lunettes de protection. Ne jamais utiliser une lime sans poignée bien ajustée.
	<b>⚠ ADVERTENCIA</b> Use gafas de seguridad para proteger sus ojos. Nunca utilice una lima con el mango suelto.

⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
	<b>Risk Of Eye Injury</b> Wear ANSI Approved Eye Protection	<b>Risque de dommages d'oeil</b> Protection d'oeil approuvée de l'usage A.N.S.I.
	Riesgo de lesión del ojo Protección de ojo aprobada del desgaste ANSI	

## X.F.® Swiss Pattern Needle File Assortment Sets



- Made to More Exacting Measurements Than American Pattern Files
- Used Primarily By Jewelers, Die Makers, Watchmakers and Fine Toolmakers
- Knurled Handles
- Assortments of 12 File Shapes, Based on Length and Cut
- Assortments also Include Joint and Marking Files

Cat. No.	UPC No.	Packaging	Length	File Cut	Product Weight	Shelf Pack Qty.
37029	037103370297	Pouch	4 in	0	0.10 lb	10
37035	037103370358	Pouch	4 in	2	0.13 lb	10
37392	037103373922	Pouch	5-1/2 in	0	0.20 lb	10
37398	037103373984	Pouch	5-1/2 in	2	0.20 lb	10
37404	037103374042	Pouch	5-1/2 in	4	0.20 lb	10
37755	037103377555	Pouch	6-1/4 in	0	0.25 lb	10
37761	037103377616	Pouch	6-1/4 in	2	0.25 lb	10
37767	037103377678	Pouch	6-1/4 in	4	0.25 lb	10