

**TF-11~45**

**JET BLACK FILE**

High performance, Rust-resistant, Black coated files



Item No.	Shape	Coarseness	Blade length	O.A. length	Wgt (g)
TF-11	□	Second-cut		215	58
TF-12	△				59
TF-13	○				41
TF-14	□				52
TF-15	△				56
TF-21	□	#3	100	200	21
TF-22	△				18
TF-23	○				16
TF-24	□				19
TF-25	△				17
TF-31	□	Smooth-cut		215	58
TF-32	△				61
TF-33	○				40
TF-34	□				55
TF-35	△				58
TF-41	□	Second-cut	175	325	166
TF-42	△				153
TF-43	○				300
TF-44	□				112
TF-45	△				325

**ORDINARY FILES**  
Clogged with filing debris

Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.

Sharp edge of teeth

Rust-resistant black coating

Side face  
Smooth machined surface, ideal for filing a corner without damage. (TF-11, 21, 31, 41 only)

**TFS-07·10·20·30 JET BLACK FILE SET**

● A set of Jet Black Files in a roll-up storage with a strap



TFS-10 W240×L240(mm) W50×L240×H50(mm)

Item No.	Shape					Brush	Coarseness	Blade length	O.A. length	Wgt (g)
	□	△	○	□	△					
TFS-07	TF-11	TF-12	TF-13	□	△	-	Second-cut	100	215	274
	TF-21	TF-22	TF-23	-	-		Precision	100	200	
TFS-10	TF-11	TF-12	TF-13	TF-14	TF-15	○	Second-cut	100	215	349
TFS-20	TF-21	TF-22	TF-23	TF-24	TF-25	○	Precision	100	200	170
TFS-30	TF-31	TF-32	TF-33	TF-34	TF-35	○	Smooth-cut	100	215	371

**TFS-01·02 FILE SET**

● Normal Type (Second-cut)  
● Ideal for metalworking of steel, die-cast, aluminum, etc.



TFS-01 TFS-02 (TF-06~10)

Item No.	Contents	□	△	○	□	△	Length(mm)
TFS-01	5	●	●	●	●	●	185
TFS-02	5	●	●	●	●	●	200