

Cutting and Processing

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					58
TF-12				215	59
TF-13	0	Second-cut			41
TF-14					52
TF-15	Δ				56
TF-21				200	21
TF-22			100		18
TF-23	0	#3			16
TF-24					19
TF-25	Δ				17
TF-31				215	58
TF-32					61
TF-33	0	Smooth-cut			40
TF-34					55
TF-35	Δ				58
TF-41			175	325	166
TF-42				320	153
TF-43	0	Second-cut		300	109
TF-44				325	112
TF-45	Δ			325	166





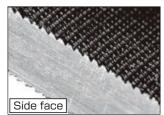
Burr on each file tooth is eliminated before black coating, good for high and lasting performance of filing.





Sharp edge of teeth

Rust-resistant black coating



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)

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Item No.	Shape					Bruch	Coarcanace	Blade length	O A longth	Wat (a)
item No.					\triangle	Diusii	Oudi Sel less	Diduc icrigiti	U.A.ICIIGUI	W81(8)
TFS-07			TF-13		-	-	Second-cut	100	215	274
153-07	TF-21	TF-22	TF-23				Precision	100	200	
TFS-10	TF-11	TF-12	TF-13	TF-14	TF-15	0	Second-cut	100	215	349
TFS-20	TF-21	TF-22	TF-23	TF-24	TF-25	0	Precision	100	200	170
TFS-30	TF-31	TF-32	TF-33	TF-34	TF-35	0	Smooth-cut	100	215	371

TFS-01·02

FILE SET

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



TFS-01



TFS-02 (TF-06~10)

Item No.	Contents			0		Δ	Length(mm)
TFS-01	5	•	•	•	•	•	185
TFS-02	5	•	•	•	•	•	200