



Small abrasive mop

The small abrasive mop is comprised of grinding flaps coated with aluminium oxide. The fan-shaped abrasive flaps are securely fixed to an central mounting spindle. The grinding flaps' fan-shaped radial arrangement adapts perfectly to the contours of the work piece.

The wide range of grits (40 – 320) and top size coat additives (with and without multibonds) make the KLINGSPOR small abrasive mop perfect for a wide range of applications.

The small abrasive mop is equipped with the following standard features: a 6 mm or 3 mm fixing spindle and a shaft length of 40 mm.

Minimum order quantities for manufactured items

Product	Diameter in mm	Minimum order quantities
KM 613	40 – 320	250 pieces
	from 360	500 pieces
KM 615	40 – 180	250 pieces
KMT 614	40 – 320	250 pieces
	from 360	500 pieces
NCS 600 / NFS 600	30, 40, 50, 60	150 pieces
	80, 100	100 pieces

Application examples

- Grinding work for tool and mould making
- Processing of profiled work pieces
- Processing of internal surfaces on pipework, fittings and difficult to reach areas
- Grinding work on small parts and casings

Description	Type	Page	Material applications														Machine applications			
			Metal	App. eng. / Container constr.	Precision engineering	Mould making	Fittings	Pipes	Profiled sections	Tools	Mountings	Cutlery	Wood	Contoured wood	Model construction	Profiled sections	Plastics	Flexible shafts	Drilling machines	Stroke grinders
Abrasive Mops	KM 613	172	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●
	KM 615	176	●	●	●	●	●	●	●	●	●	●			○	○		●	●	●
	KMT 614	177	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●
	NCS 600	177	●	●	●	●	●	●	●	●	●	●					○	●	●	●
	NFS 600	178	●	●	●	●	●	●	●	●	●	●						●	●	●

● = main application ○ = possible application

Application recommendations

- The small abrasive mop can be used with flexible shaft grinders, stroke grinders (compressor, electric) or drilling machines
- The small abrasive mop's optimum performance is achieved at a cutting rate between 20 – 25 m/s. By observing these speeds, the product will perform at its most economical as regards tool wear, stock removal, surface finish and thermal load of the work piece.

Factors influencing the grinding result

Stock removal:

An increase in stock removal should only occur as a result of using rougher grit and not as a result of increased tool / grinding pressure.

Steady increased tool / grinding pressure

- results in unnecessary tool wear and tear
- results in increased work piece temperature load
- can result in tool failure

Surface finish:

- The wear of the outer edge of the grinding flaps results in the presentation of new sharp abrasive grain, which results in a uniform surface finish
- The surface roughness decreases through an increase in the cutting rate
- An increase in the tool / grinding pressure results in a coarser surface roughness
- The small abrasive mop achieves a significantly smoother surface finish as compared to that of a belt grinder

Temperature load:

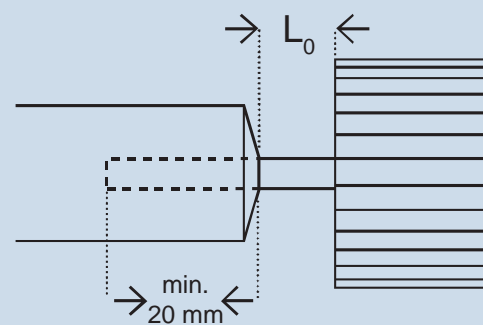
- By reducing the tool / grinding pressure and the peripheral speeds the temperature load of the work piece and the tool is reduced

Tool wear:

- Tool service life is reduced by working at a lower tool / grinding pressure

Safety recommendations

Ø [mm]	Height [mm]	Maximum operating speed [m/s]	RPM [1/min]		
			L ₀ = 0 mm	L ₀ = 10 mm	L ₀ = 20 mm
20	≤ 20	40	38,150	28,600	21,900
25	≤ 15	40	30,500	22,900	17,500
30	≤ 15	40	25,400	19,000	14,600
40	≤ 20	40	19,000	14,300	10,900
50	≤ 30	40	15,200	11,400	8,700
60	≤ 50	40	12,700	9,500	7,300
80	≤ 40	40	9,500	7,100	5,400
	50	35	8,400	7,100	5,400



To ensure the optimal and most efficient use of a tool

- the maximum revolutions per minute may not be exceeded
- the fixing spindle length of the small abrasive mop in the mounting device must be at least 20 mm
- the set revolutions per minute may not be exceeded when using an exposed shaft length L₀ (please refer to the table above)

For additional information please refer to the safety information provided with the product.

The safe use of KLINGSPOR abrasives

KLINGSPOR small abrasive mops are manufactured in accordance with the oSa and EN13743 standards, this ensures the highest level of user safety.



Wear safety goggles or glasses to protect the eyes



Wear safety gloves to protect hands



Wear a dust mask



Observe safety instructions



Use ear muffs



Do not use for wet grinding

Small abrasive mop
KM 613
Advantages

Universal product for steel and stainless steel materials ■ Even removal rate ■ Suitable for use in hard-to-reach areas


Applications:

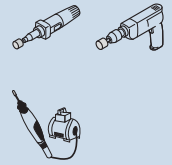
- Metals
- Wood
- Plastic

Bonding agent

Resin

Grain

Aluminium oxide


Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	
				■		■	■	■	■	■	■		■		■										

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number		
20 x 10 x 6	40	38,150 rpm	25	284729		
20 x 10 x 6	60	38,150 rpm	25	284730		
20 x 10 x 6	80	38,150 rpm	25	284731		
20 x 10 x 6	120	38,150 rpm	25	284732		
20 x 10 x 6	180	38,150 rpm	25	284733		
20 x 10 x 6	240	38,150 rpm	25	284734		
20 x 10 x 6	320	38,150 rpm	25	284735		
20 x 15 x 6	40	38,150 rpm	25	284736		
20 x 15 x 6	60	38,150 rpm	25	284737		
20 x 15 x 6	80	38,150 rpm	25	284738		
20 x 15 x 6	120	38,150 rpm	25	284739		
20 x 15 x 6	180	38,150 rpm	25	284740		
20 x 15 x 6	240	38,150 rpm	25	284741		
20 x 15 x 6	320	38,150 rpm	25	284742		
20 x 20 x 6	40	38,150 rpm	25	284743		
20 x 20 x 6	60	38,150 rpm	25	284744		
20 x 20 x 6	80	38,150 rpm	25	284745		
20 x 20 x 6	120	38,150 rpm	25	284746		
20 x 20 x 6	180	38,150 rpm	25	284747		
20 x 20 x 6	240	38,150 rpm	25	284748		
20 x 20 x 6	320	38,150 rpm	25	284749		
25 x 10 x 6	40	30,500 rpm	10	253816		
25 x 10 x 6	60	30,500 rpm	10	253591		
25 x 10 x 6	80	30,500 rpm	10	253592		
25 x 10 x 6	120	30,500 rpm	10	253593		
25 x 10 x 6	150	30,500 rpm	10	253594		
25 x 10 x 6	240	30,500 rpm	10	253605		
25 x 15 x 6	40	30,500 rpm	10	253817		
25 x 15 x 6	60	30,500 rpm	10	250985		
25 x 15 x 6	80	30,500 rpm	10	237496		
25 x 15 x 6	120	30,500 rpm	10	253606		
25 x 15 x 6	150	30,500 rpm	10	253607		
25 x 15 x 6	240	30,500 rpm	10	253608		
30 x 5 x 3	60	25,400 rpm	10	12781		
30 x 5 x 3	80	25,400 rpm	10	12782		

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Small abrasive mop

Abrasive mop



KLINGSPOR

Continuation of KM 613, Small abrasive mop

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number		
30 x 5 x 3	120	25,400 rpm	10	12784		
30 x 5 x 3	240	25,400 rpm	10	12787		
30 x 5 x 6	60	25,400 rpm	10	12790		
30 x 5 x 6	80	25,400 rpm	10	12791		
30 x 5 x 6	120	25,400 rpm	10	12793		
30 x 5 x 6	150	25,400 rpm	10	12794		
30 x 5 x 6	240	25,400 rpm	10	12796		
30 x 10 x 3	60	25,400 rpm	10	12808		
30 x 10 x 3	80	25,400 rpm	10	12809		
30 x 10 x 3	120	25,400 rpm	10	12811		
30 x 10 x 3	240	25,400 rpm	10	12814		
30 x 10 x 6	40	25,400 rpm	10	12816		
30 x 10 x 6	60	25,400 rpm	10	12817		
30 x 10 x 6	80	25,400 rpm	10	12818		
30 x 10 x 6	100	25,400 rpm	10	12819		
30 x 10 x 6	120	25,400 rpm	10	12820		
30 x 10 x 6	150	25,400 rpm	10	12821		
30 x 10 x 6	180	25,400 rpm	10	12822		
30 x 10 x 6	240	25,400 rpm	10	12823		
30 x 10 x 6	320	25,400 rpm	10	12824		
30 x 15 x 6	40	25,400 rpm	10	12843		
30 x 15 x 6	60	25,400 rpm	10	12844		
30 x 15 x 6	80	25,400 rpm	10	12845		
30 x 15 x 6	100	25,400 rpm	10	12846		
30 x 15 x 6	120	25,400 rpm	10	12847		
30 x 15 x 6	150	25,400 rpm	10	12848		
30 x 15 x 6	180	25,400 rpm	10	12849		
30 x 15 x 6	240	25,400 rpm	10	12850		
30 x 15 x 6	320	25,400 rpm	10	12851		
40 x 10 x 6	40	19,000 rpm	10	12870		
40 x 10 x 6	60	19,000 rpm	10	12871		
40 x 10 x 6	80	19,000 rpm	10	12872		
40 x 10 x 6	120	19,000 rpm	10	12874		
40 x 10 x 6	150	19,000 rpm	10	12875		
40 x 10 x 6	240	19,000 rpm	10	12877		
40 x 15 x 6	40	19,000 rpm	10	12906		
40 x 15 x 6	60	19,000 rpm	10	12907		
40 x 15 x 6	80	19,000 rpm	10	12908		
40 x 15 x 6	100	19,000 rpm	10	12909		
40 x 15 x 6	120	19,000 rpm	10	12910		
40 x 15 x 6	150	19,000 rpm	10	12911		
40 x 15 x 6	180	19,000 rpm	10	12912		
40 x 15 x 6	240	19,000 rpm	10	12913		
40 x 15 x 6	320	19,000 rpm	10	12914		
40 x 20 x 6	40	19,000 rpm	10	12942		
40 x 20 x 6	60	19,000 rpm	10	12943		
40 x 20 x 6	80	19,000 rpm	10	12944		
40 x 20 x 6	100	19,000 rpm	10	12945		
40 x 20 x 6	120	19,000 rpm	10	12946		
40 x 20 x 6	150	19,000 rpm	10	12947		
40 x 20 x 6	180	19,000 rpm	10	12948		
40 x 20 x 6	240	19,000 rpm	10	12949		
40 x 20 x 6	320	19,000 rpm	10	12950		
50 x 5 x 6	60	15,200 rpm	10	135235		
50 x 5 x 6	80	15,200 rpm	10	136451		

Abrasive mop

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Continuation of KM 613, Small abrasive mop

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number		
50 x 5 x 6	120	15,200 rpm	10	251778		
50 x 5 x 6	150	15,200 rpm	10	149046		
50 x 5 x 6	240	15,200 rpm	10	149047		
50 x 10 x 6	40	15,200 rpm	10	12960		
50 x 10 x 6	60	15,200 rpm	10	12961		
50 x 10 x 6	80	15,200 rpm	10	12962		
50 x 10 x 6	120	15,200 rpm	10	12964		
50 x 10 x 6	150	15,200 rpm	10	12965		
50 x 10 x 6	240	15,200 rpm	10	12967		
50 x 15 x 6	40	15,200 rpm	10	12978		
50 x 15 x 6	60	15,200 rpm	10	12979		
50 x 15 x 6	80	15,200 rpm	10	12980		
50 x 15 x 6	120	15,200 rpm	10	12982		
50 x 15 x 6	150	15,200 rpm	10	12983		
50 x 15 x 6	240	15,200 rpm	10	12985		
50 x 20 x 6	40	15,200 rpm	10	12996		
50 x 20 x 6	60	15,200 rpm	10	12997		
50 x 20 x 6	80	15,200 rpm	10	12998		
50 x 20 x 6	100	15,200 rpm	10	12999		
50 x 20 x 6	120	15,200 rpm	10	13000		
50 x 20 x 6	150	15,200 rpm	10	13001		
50 x 20 x 6	180	15,200 rpm	10	13002		
50 x 20 x 6	240	15,200 rpm	10	13003		
50 x 20 x 6	320	15,200 rpm	10	13004		
50 x 30 x 6	40	15,200 rpm	10	61282		
50 x 30 x 6	60	15,200 rpm	10	61299		
50 x 30 x 6	80	15,200 rpm	10	61319		
50 x 30 x 6	100	15,200 rpm	10	61333		
50 x 30 x 6	120	15,200 rpm	10	61350		
50 x 30 x 6	150	15,200 rpm	10	71015		
50 x 30 x 6	180	15,200 rpm	10	61371		
50 x 30 x 6	240	15,200 rpm	10	71017		
50 x 30 x 6	320	15,200 rpm	10	61389		
60 x 15 x 6	40	12,700 rpm	10	13014		
60 x 15 x 6	60	12,700 rpm	10	13015		
60 x 15 x 6	80	12,700 rpm	10	13016		
60 x 15 x 6	120	12,700 rpm	10	13018		
60 x 15 x 6	150	12,700 rpm	10	13019		
60 x 15 x 6	240	12,700 rpm	10	13021		
60 x 20 x 6	40	12,700 rpm	10	13032		
60 x 20 x 6	60	12,700 rpm	10	13033		
60 x 20 x 6	80	12,700 rpm	10	13034		
60 x 20 x 6	120	12,700 rpm	10	13036		
60 x 20 x 6	150	12,700 rpm	10	13037		
60 x 20 x 6	180	12,700 rpm	10	13038		
60 x 20 x 6	240	12,700 rpm	10	13039		
60 x 30 x 6	40	12,700 rpm	10	13050		
60 x 30 x 6	60	12,700 rpm	10	13051		
60 x 30 x 6	80	12,700 rpm	10	13052		
60 x 30 x 6	100	12,700 rpm	10	13053		
60 x 30 x 6	120	12,700 rpm	10	13054		
60 x 30 x 6	150	12,700 rpm	10	13055		
60 x 30 x 6	180	12,700 rpm	10	13056		
60 x 30 x 6	240	12,700 rpm	10	13057		
60 x 30 x 6	320	12,700 rpm	10	13058		

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Small abrasive mop

Abrasive mop



KLINGSPOR

Continuation of KM 613, Small abrasive mop

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number		
60 x 40 x 6	40	12,700 rpm	10	13068		
60 x 40 x 6	60	12,700 rpm	10	13069		
60 x 40 x 6	80	12,700 rpm	10	13070		
60 x 40 x 6	100	12,700 rpm	10	13071		
60 x 40 x 6	120	12,700 rpm	10	13072		
60 x 40 x 6	150	12,700 rpm	10	13073		
60 x 40 x 6	180	12,700 rpm	10	13074		
60 x 40 x 6	240	12,700 rpm	10	13075		
60 x 50 x 6	40	12,700 rpm	10	13086		
60 x 50 x 6	60	12,700 rpm	10	13087		
60 x 50 x 6	80	12,700 rpm	10	13088		
60 x 50 x 6	120	12,700 rpm	10	13090		
60 x 50 x 6	180	12,700 rpm	10	13092		
60 x 50 x 6	240	12,700 rpm	10	13093		
60 x 50 x 6	320	12,700 rpm	10	13094		
80 x 15 x 6	40	9,500 rpm	10	13104		
80 x 15 x 6	60	9,500 rpm	10	13105		
80 x 15 x 6	80	9,500 rpm	10	13106		
80 x 15 x 6	120	9,500 rpm	10	13108		
80 x 15 x 6	150	9,500 rpm	10	13109		
80 x 15 x 6	240	9,500 rpm	10	13111		
80 x 20 x 6	40	9,500 rpm	10	13122		
80 x 20 x 6	60	9,500 rpm	10	13123		
80 x 20 x 6	80	9,500 rpm	10	13124		
80 x 20 x 6	120	9,500 rpm	10	13126		
80 x 30 x 6	40	9,500 rpm	10	13140		
80 x 30 x 6	60	9,500 rpm	10	13141		
80 x 30 x 6	80	9,500 rpm	10	13142		
80 x 30 x 6	100	9,500 rpm	10	13143		
80 x 30 x 6	120	9,500 rpm	10	13144		
80 x 30 x 6	150	9,500 rpm	10	13145		
80 x 30 x 6	240	9,500 rpm	10	13147		
80 x 30 x 6	320	9,500 rpm	10	13148		
80 x 40 x 6	40	9,500 rpm	10	13158		
80 x 40 x 6	60	9,500 rpm	10	13159		
80 x 40 x 6	80	9,500 rpm	10	13160		
80 x 40 x 6	100	9,500 rpm	10	13161		
80 x 40 x 6	120	9,500 rpm	10	13162		
80 x 40 x 6	180	9,500 rpm	10	13164		
80 x 40 x 6	240	9,500 rpm	10	13165		
80 x 50 x 6	40	8,400 rpm	10	13176		
80 x 50 x 6	60	8,400 rpm	10	13177		
80 x 50 x 6	80	8,400 rpm	10	13178		
80 x 50 x 6	100	8,400 rpm	10	13179		
80 x 50 x 6	120	8,400 rpm	10	13180		
80 x 50 x 6	150	8,400 rpm	10	13181		
80 x 50 x 6	240	8,400 rpm	10	13183		
80 x 50 x 6	320	8,400 rpm	10	13184		

Abrasive mop

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Small abrasive mop
KM 615
Advantages

Cool grinding due to multibond ■ Increased removal rate on stainless steel


Applications:

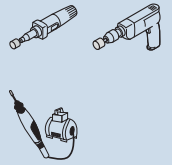
■ Stainless steel

Bonding agent

Resin

Grain

Aluminium oxide


Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	
						■	■		■																

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number		
30 x 10 x 6	60	25,400 rpm	10	253615		
30 x 10 x 6	80	25,400 rpm	10	253620		
30 x 10 x 6	120	25,400 rpm	10	253610		
40 x 20 x 6	60	19,000 rpm	10	253616		
40 x 20 x 6	80	19,000 rpm	10	253621		
40 x 20 x 6	120	19,000 rpm	10	253611		
50 x 20 x 6	60	15,200 rpm	10	253617		
50 x 20 x 6	80	15,200 rpm	10	253622		
50 x 20 x 6	120	15,200 rpm	10	253612		
60 x 30 x 6	60	12,700 rpm	10	253618		
60 x 30 x 6	80	12,700 rpm	10	253623		
60 x 30 x 6	120	12,700 rpm	10	253613		
80 x 40 x 6	60	9,500 rpm	10	253619		
80 x 40 x 6	80	9,500 rpm	10	253624		
80 x 40 x 6	120	9,500 rpm	10	253614		

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Small abrasive mop

Abrasive mop

Small abrasive mop, cup-shaped

KMT 614



Advantages

Can be used in radial and front position

Applications:

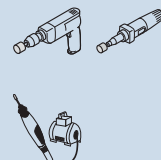
- Metals
- Wood
- Plastic

Bonding agent

Resin

Grain

Aluminium oxide



Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000	
				■		■	■		■																

Diameter x Height x Shaft in mm	Grit	Max. RPM	Packing unit/pcs.	Cat. number
60 x 40 x 6	40	10,200 rpm	10	13194
60 x 40 x 6	60	10,200 rpm	10	13195
60 x 40 x 6	80	10,200 rpm	10	13196
60 x 40 x 6	120	10,200 rpm	10	13198

Abrasive mop

NCS 600



Advantages

High removal rate and fine surface scratch pattern due to combination of non-woven and abrasive cloth flaps ■ Long service life

Applications:

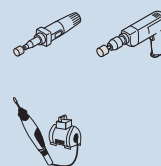
- Stainless steel
- Metals
- Plastic

Bonding agent

Resin

Grain

Aluminium oxide



Diameter x Height x Shaft in mm	Grit	Grade	Max. RPM	Packing unit/pcs.	Cat. number
50 x 30 x 6	60	coarse	12,200 rpm	10	258932
50 x 30 x 6	100	medium	12,200 rpm	10	258933
50 x 30 x 6	150	medium	12,200 rpm	10	258934
50 x 30 x 6	240	very fine	12,200 rpm	10	258935
60 x 30 x 6	60	coarse	10,000 rpm	10	258936
60 x 30 x 6	100	medium	10,000 rpm	10	258937
60 x 30 x 6	150	medium	10,000 rpm	10	258938
60 x 30 x 6	240	very fine	10,000 rpm	10	258939
60 x 50 x 6	60	coarse	10,000 rpm	10	258940
60 x 50 x 6	100	medium	10,000 rpm	10	258941
60 x 50 x 6	150	medium	10,000 rpm	10	258942

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

Continuation of NCS 600, Abrasive mop

Diameter x Height x Shaft in mm	Grit	Grade	Max. RPM	Packing unit/pcs.	Cat. number		
60 x 50 x 6	240	very fine	10,000 rpm	10	258943		
80 x 50 x 6	60	coarse	7,600 rpm	10	258944		
80 x 50 x 6	100	medium	7,600 rpm	10	258945		
80 x 50 x 6	150	medium	7,600 rpm	10	258946		
80 x 50 x 6	240	very fine	7,600 rpm	10	258947		
100 x 50 x 6	60	coarse	6,000 rpm	4	258948		
100 x 50 x 6	100	medium	6,000 rpm	4	258949		
100 x 50 x 6	150	medium	6,000 rpm	4	258950		
100 x 50 x 6	240	very fine	6,000 rpm	4	258951		

Small finishing mop
NFS 600
Advantages

Even finish throughout the entire service life ■ Optimal tool with high-quality non-woven flaps for creating a matte or satin finish


Applications:

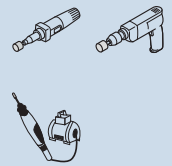
- Metals
- Stainless steel

Bonding agent

Resin

Grain

Aluminium oxide



Diameter x Height x Shaft in mm	Grade	Max. RPM	Packing unit/pcs.	Cat. number		
50 x 30 x 6	coarse	12,200 rpm	10	258917		
50 x 30 x 6	medium	12,200 rpm	10	258918		
50 x 30 x 6	very fine	12,200 rpm	10	258919		
60 x 30 x 6	coarse	10,000 rpm	10	258920		
60 x 30 x 6	medium	10,000 rpm	10	258921		
60 x 30 x 6	very fine	10,000 rpm	10	258922		
60 x 50 x 6	coarse	10,000 rpm	10	258923		
60 x 50 x 6	medium	10,000 rpm	10	258924		
60 x 50 x 6	very fine	10,000 rpm	10	258925		
80 x 50 x 6	coarse	7,600 rpm	10	258926		
80 x 50 x 6	medium	7,600 rpm	10	258927		
80 x 50 x 6	very fine	7,600 rpm	10	258928		
100 x 50 x 6	coarse	6,000 rpm	4	258929		
100 x 50 x 6	medium	6,000 rpm	4	258930		
100 x 50 x 6	very fine	6,000 rpm	4	258931		

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 170; Please see Applications Guide on page 170 - 171.

