

Conversion Chart Abrasives - Grit Sizes

Use this Conversion chart to view the different standards and as a guide to know when you can start using Micro-mesh. Use conventional abrasives as normal prior to going into the Micro-mesh stage.

Definitions:

FEPA (Fédération Européenne des Fabricants de Produits Abrasifs) Federation of European Producers of Abrasives. The FEPA distinguishes between grain for sanding paper (FEPA P) and grain for sharpening stones or wheels (FEPA F) The decisive factor for comparison is FEPA F. FEPA P is only used for sanding paper.

JIS (Japanese Industrial Standard) issued by the Japanese Standards Association.

ANSI American National Standards Institute.

MICRON (μ) is the letter "micron" in the Greek alphabet. As measuring unit it describes 1 thousandth of a millimeter ($1 \mu = 0.001 \text{ mm}$). A Micron row is added to each FEPA P, FEPA F, JIS und ANSI row for comparison.

MM Micro-mesh grit in comparison to other standards.

The grit sizes are defined by the number of lines per inch (25.4 mm) length of each sieve e.g. 150 lines per inch. Abrasives grit 150 will pass this sieve. This chart is a general overview only. We are not responsible for any errors.

FEPA P Paper	μm	FEPA F Grain	μm	JIS R6001 Japan 1973	μm	ANSI	Micron μm	MM
		F5	4125					
		F6	3460					
		F7	2900					
		F8	2460					
		F10	2085					
P12	1815	F12	1765					
		F14	1470					
P16	1324	F16	1230					
P20	1000	F20	1040					
		F22	885					
P24	764	F24	745					
P30	642	F30	625					
P36	538	F36	525					
P40	425	F40	438					
		F46	370					
P50	336	F54	310					
P60	269	F60	260	J60				
		F70	218					
P80	201							

		F80	185					
P100	162							
		F90	154					
P120	125	F100	129	J100	125	100	125	
		F120	109					
P150	100							
P180	82	F150	82	J150	80	150	80	
P220	68	F180	69	J180	70	180	70	
		F220	58	J220	58	220	58	
Micro grains				J240	80			
				J280	68			
P240	58.5 ±2			J320	57			
P280	52.2 ±2	F230	53 ±3			240	51	
P320	46.2 ±1.5			J360	48			
		F240	44.5 ±2					
P360	40.5 ±1.5			J400	40	280	41.5	
P400	35.0 ±1.5	F280	36.5 ±1.5					
P600	25.8 ±1							
P800	21.8 ±1	F360	22.8 ±1.5	J700	24	400	22.5	1500
P1000	18.3 ±1			J800	20			
		F400	17.3 ±1	J1000	16	500	18	
P1200	15.3 ±1					600	14	1800
P1500	12.6 ±1	F500	12.8 ±1	J1200	13			2400
P2000	10.3 ±0.8					800	12	3200
		F600	9.3 ±1	J1500	10			

P2500	8.4 ±0.5			J2000	8	1000	7.8	
P3000	7							
P5000	5							
		F800	6.5 ±1					
		F1000	4.5 ±0.8	J3000	5	1200	5.5	4000
								6000
		F1200	3.0 ±0.5	J4000	3			8000
		F1500	2.0 ±0.4	J6000	2			12000
		F2000	1.2 ±0.3	J8000	1.2			