

Abrasive Grit and Particle Conversions

The grit size nomenclature adopted by us is based on FEPA (European) standard. The particle size and marking standards as per JIS or ANSI differ from FEPA slightly, especially in finer grits.

The following table will help you in decoding the grit size based on foreign competitors sample. Use the particle size information as a guide or a check against the requirement of application. In case of doubt or clarification kindly refer to PED.

Average Particle Inches	Average Particle Microns	JIS R6001-87		ANSI B74-12 B74-10		FEPA 32GB 33GB		GOST (USSR)	
		Coarser	Finer	Coarser	Finer	Coarser	Finer	Coarser	Finer
0.0929	2360	8		8		8			
0.0787	200	10		10		10		200	
0.0669	1700	12		12		12			
0.0629	1600							60	
0.0551	1400	14		14		14			
0.0492	1250							125	
0.0464	1180	16		16		16			
0.0393	1000							100	
0.0334	850	20		20		20			
0.0314	800							80	
0.0279	710	24		24		24			
0.0248	630							63	
0.0236	600	30		30		30			
0.0196	500	36		36		36		50	
0.0157	400							40	
0.0139	355	46		46		46		46	
0.0124	315							32	
0.0118	300	54		54		54			
0.0098	250	60		60		60		25	
0.0083	212	790		70		70			
0.0078	200							20	
0.0070	180	80		80		80			
0.0062	160							16	
0.0059	150	90		90		90			
0.0049	125	100		100		100		12	
0.0041	106	120		120		120			
0.0039	100							10	

Average Particle	Average Particle	JIS R6001-87		ANSI B74-12 B74-10		FEPA 32GB 33GB		GOST (USSR)	
Inches	Microns	Coarser	Finer	Coarser	Finer	Coarser	Finer	Coarser	Finer
0.0031	80							0	
0.0031	75	150		150		150		150	
0.0024	63	180		180		180		6	
0.0022	57		240						
0.00208	53	220		220		220	230		
0.00204	52				240				
0.00196	50							5	
0.00188	48		280						
0.00177	45						240		
0.00165	42				280				
0.00157	40		320					4	
0.00145	37						280		
0.00137	35		360						
0.00133	34				320				M40
0.00118	30		400						
0.00094	24								M28
0.00090	23						360		
0.00086	22				400				
0.00078	20		600						
0.00070	18				500				
0.00066	17		700				400		M14
0.00057	14.5				600				
0.00055	14		800						
0.00051	13						500		
0.00047	12								
0.00045	11.5		1000						
0.00043	11				800				
0.00037	9.5		1200						
0.00035	9						600		
0.00033	8.5								M10
0.00031	8		1500		1000				
0.00027	7						800		
0.00026	6.7		2000						
0.00023	6								M7
0.00021	5.5		2500		1200				
0.00019	5						1000		
0.00015	4		3000						M5
0.00011	3		4000				1200		
0.000078	2		6000						
0.000047	1.2		8000						
0.00003937	1								