

## Conversion Chart for Units Applicable to Filtration

Parameter	Imperial Units	S.I. Units	Multiplication Factor to Convert:	
			Imperial To S.I.	S.I. to Imperial
Length	inch	mm	25.4	0.039
	foot	m	0.305	3.279
	yard	m	0.914	1.094
Weight / Area	oz/yd <sup>2</sup>	g/m <sup>2</sup>	33.91	0.0295
Yarn Weight	denier	tex	0.111	9
Weave Density	yarns/inch	yarns/cm	0.394	2.54
Yarn Tensile Strength	g/d	cN/dtex	0.878	1.14
Fabric Tensile Strength	lbs/2"	N/5cm	4.45	0.225
Burst Strength	lbs/in <sup>2</sup>	kg/cm <sup>2</sup>	0.0703	14.22
		kPa	6.89	0.145
Permeability	cfm@½"w.g.	dm <sup>3</sup> /dm <sup>2</sup> /min@200Pa	4.871	0.208
		m <sup>3</sup> /m <sup>2</sup> /min@½"w.g.	0.3048	3.281
		m <sup>3</sup> /m <sup>2</sup> /sec@½"w.g.	0.0051	196.86
		ltr/m <sup>2</sup> /min@½"w.g.	2.63	0.38
Air-to-cloth ratio	ft/min	m/min	0.305	3.279
	ft <sup>3</sup> /ft <sup>2</sup> /min	mm/sec	5.083	0.197
		m <sup>3</sup> /m <sup>2</sup> /hr	18.29	0.055
Dust Load	grains/ft <sup>3</sup>	mg/m <sup>3</sup>	2273	0.00044
Temperature	°F	°C	5/9(F-32)	9/5(C+32)
Pressure	psig	kPa	6.895	0.145
	inch H <sub>2</sub> O	kPa	0.249	4.02