

Calculating Solder Paste Volume Percent

Density of Typical Solder Paste (90% metal) 10 c.c. syringe weights 42-g	
Paste Density	= 42 / 10
	= 4.2-g/ml
Flux Density	30cc syringe weights 30.4g
Flux Density	= 30.4 / 30.0
	= 1.013-g/ml
Volume of Flux	= Wt % Flux / Sp Gr of Flux
	= 10 / 1.013
	= 9.87ml
Volume of Paste for 100g	= 100 / 4.2
	= 23.81
Volume of Metal	= 23.81 - 9.87
	= 13.94
Volume % Metal	= Volume of Metal / Volume of Paste
	= 13.94 / 23.81
	= 58.55%
Volume % Flux	= Volume of Flux / Volume of Paste
	= 9.87 / 23.81
	= 41.45%