Mold Volume Quick Reference

Calculate net volume, then add 15% waste buffer. Use the Resin Dose Calculator for exact figures.

Shape	Formula	Notes	Worked Example (imperial)
Round / Cylinder	π × r² × depth	r = diameter ÷ 2	4" diam, 0.25" deep = 1.74 fl oz
Square	side² × depth	—	4" × 4" × 0.25" ÷ 1.80 = 2.22 fl oz
Rectangle	length × width × depth	—	10" × 6" × 0.25" ÷ 1.80 = 8.33 fl oz
Oval	π × a × b × depth	a = long/2, b = short/2	10" × 7" × 0.25": 7.64 fl oz
Hemisphere	(2/3) × π × r³	r = diameter ÷ 2	4" diam: (2/3)×π×2³ ÷ 1.80 = 9.28 fl oz
Bowl (approx.)	π × r² × depth × 0.6	60% of cylinder	5" top diam, 2" deep × 0.6 = 6.54 fl oz
Canvas coating	length × width × 0.125"	Standard coat depth	12" × 12" × 0.125" ÷ 1.80 = 1.00 fl oz
River channel	length × width × depth	Same as rectangle	Pour in 3 stages for depths over 1"

UNIT CONVERSIONS

Cubic inches → fl oz: divide by 1.8047

Cubic cm → ml: divide by 1 (cm³ = ml)

fl oz → ml: multiply by 29.57

Inches → cm: multiply by 2.54

QUICK 15 % WASTE BUFFER REFERENCE

Net Volume	fl oz — Mix this	Net Volume	ml — Mix this
1.0 fl oz	**1.15 fl oz**	30 ml	**34.5 ml**
2.0 fl oz	**2.30 fl oz**	60 ml	**69.0 ml**
4.0 fl oz	**4.60 fl oz**	120 ml	**138 ml**
6.0 fl oz	**6.90 fl oz**	200 ml	**230 ml**
8.0 fl oz	**9.20 fl oz**	300 ml	**345 ml**
12.0 fl oz	**13.80 fl oz**	500 ml	**575 ml**
16.0 fl oz	**18.40 fl oz**	1000 ml	**1150 ml**