



# MATERIAL ESTIMATOR

FOR CASTING RESIN AND FILLER MATERIAL

APPLICATION GUIDE



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## DETERMINING THE CUBIC FOOT VOLUME TO BE CAST

$(L'' \times W'' \times D'' = \text{cubic inches} \div 1,728 = \text{cubic foot requirement in whole numbers or decimal numbers (percentage of)})$

System Used:	EC-433 R / EC-433-2 H	EC-433 R / EC-433-3 H	EC-433 R / EC-433-4 H
Density (lbs/cubic inch):	0.058/lbs	0.058/lbs	0.058/lbs
(lbs/cubic foot):	100/lbs	100/lbs	100/lbs
Weight of 5-gallon R/H pail kit:	44.8/lbs	45.2/lbs	45.2/lbs
Cubic Foot Yield:	0.45 cu/ft	0.45 cu/ft	0.45 cu/ft

### “VACUUM FORMERS”

High Temperature Casting Systems used with 145 Mesh Aluminum Grain @ 67% Parts-By-Weight

System Used:	EC-433 R / EC-433-2 H	EC-433 R / EC-433-3 H	EC-433 R / EC-433-4 H
Density (lbs/cubic inch):	0.069/lbs	0.069/lbs	0.069/lbs
(lbs/cubic foot):	119/lbs	119/lbs	119/lbs
Weight of 5-Gallon R/H + 30/lbs 145 Mesh Aluminum Grain		75.2/lbs	
Cubic Inch Yield:		1090 cu/in	
Cubic Foot Yield:		0.63 cu/ft	

Example: 1-pail kit of EC-433 Resin with EC-433-3 Hardener + 30/lbs of 145 Mesh Aluminum Grain \*\* Total weight is 75.2/lbs \*\*

Total cubic inch yield = 1,090 \*\*\* Total cubic foot yield = 0.63

### “PROTOTYPE PLASTIC INJECTION MOLDERS”

High Temperature Casting Systems used with N-20 Aluminum Grain @ 155% Parts-By-Weight

System Used:	ECC-433 R / EC-433-2 H	EC-433 R / EC-433-3 H	EC-433 R / EC-433-4 H
Density (lbs/cubic inch):	0.078/lbs	0.078/lbs	0.078/lbs
(lbs/cubic foot):	135/lbs	135/lbs	135/lbs
Weight of pail package kit:		115.2/lbs	115.2/lbs
Cubic Foot Yield:		0.085 cu/ft	0.085 cu/ft

Example: 1-pail kit of EC-433-3 + 70/lbs N-20 Aluminum Grain \*\* Total weight is 115.2/lbs \*\*

Total cubic inch yield = 1,477 \*\*\* Total cubic foot yield = 0.85

### “LV PRODUCTION RIM-RTM-COLD PRESS MOLDERS”

High Temperature Casting Systems used with N-6 Ceramic Filler + N-60 or N-61 Ceramic Filler

System Used:	EC-439 R/H	EC-440 R/H
Density (lbs/cubic foot):	162/lbs	162/lbs
Weight of R/H pail package + Ceramic Fillers:	418.9/lbs	435.2/lbs
Cubic Foot Yield:	2.58 cu/ft	2.68 cu/ft
Weight of R/H drum package + Ceramic Fillers:	4,189/lbs	4,787.2/lbs
Cubic Foot Yield:	25.8 cu/ft	29.5 cu/ft

Material Estimator-Casting Resins & Filler Material/Revised 2/4/10  
Supersedes 8/15/05

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