

## HOW TO DETERMINE DENSITY

Density is expressed in pounds per cubic foot.  
To determine density, you must first determine the volume of the shipment.

### Volume is calculated: Length x Width x Height

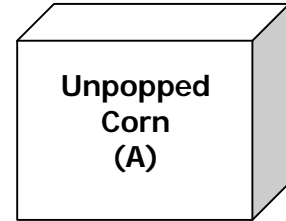
*(If measured in inches, your result must be divided by 1728 to determine cubic feet.)*

Next, divide the actual weight of the shipment by the cubic feet to determine density.

**EXAMPLE A:      10" x 12" x 15" Box**  
**50 pounds illustration (Unpopped Corn)**

**STEP ONE:**     $\frac{10 \times 12 \times 15}{1728} = \frac{1800}{1728} = 1.04$  Cubic Ft.

**STEP TWO**     $\frac{50 \text{ Lbs.}}{1.04 \text{ Cu. Ft.}} = 48.07$  Lbs. per Cubic Ft.

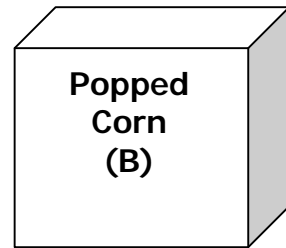


**WT**  
**50**  
**LBS**

**EXAMPLE B:      10" x 10" x 15" Box**  
**5 pounds illustration (Popped Corn)**

**STEP ONE:**     $\frac{10 \times 12 \times 15}{1728} = \frac{1800}{1728} = 1.04$  Cubic Ft.

**STEP TWO:**     $\frac{5 \text{ Lbs.}}{1.04 \text{ Cu. Ft.}} = 4.81$  Lbs. per Cubic Ft.



**WT**  
**5**  
**LBS**

## DENSITIES OF VARIOUS COMMODITIES

Listed below are average densities for various products.

These are intended as informational guidelines only.

Actual density must be determined for each individual shipment.

Commodity	Density
Blue Jeans	17.0
Computers	16.3
Electronic Components	20.3
Fabric – Cotton Knit	12.0
Machinery Parts – Pumps	56.5
Motors – Electric	35.9
Paper – Printing	87.7
Pharmaceuticals	21.7
Printed Matter – Books	40.7
Printed Matter – Newspapers	23.3