

LTL DENSITY / FREIGHT CLASS CHART

Current 13-Sub Density-Based Freight Class Reference – Effective July 19, 2025



FREIGHTCLASSCALCULATOR.tools

Class 92.5

LOW
DENSITY /
BULKY



HIGH
DENSITY /
COMPACT

SUB CODE	DENSITY RANGE (lb/ft³)	ESTIMATED CLASS	VISUAL BENCHMARK	EXAMPLE FREIGHT
1	under 1	400		Foam, pillows, loose-fill packaging
2	1 to under 2	300		Empty cartons, packing peanuts
3	2 to under 4	250		Plastic goods, bulky packaging
4	4 to under 6	175		Furniture, large crates
5	6 to under 8	125		Appliances, fixtures
6	8 to under 10	100		Bagged goods, books, paper
7	10 to under 12	92.5		Beverages, canned goods
8	12 to under 15	85		Electronics, packaged components
9	15 to under 22.5	70		Auto parts, castings
10	22.5 to under 30	65		Pumps, small machinery
11	30 to under 35	60		Machinery parts, metal fittings
12	35 to under 50	55		Steel coils, metal sheets
13	50 and higher	50		Bricks, steel, dense metal

13-SUB DENSITY SCALE



Density = Weight ÷ Cubic Feet



NMFC = National Motor Freight Classification

Density-based class references are for planning. Applicable commodity provisions and carrier rules may affect final classification.