NMFC freight class density chart

The 13-step density scale in force since July 19, 2025 (NMFC Docket 2025-1, as listed in Docket 2026-1). Each band runs from its lower value up to, but not including, the next.

CLASS	DENSITY LB/FT³	DENSITY KG/M³	48 × 40 × 48 IN PALLET, LB
50	50+	801+	2,666.7+
55	35 – < 50	561 – < 801	1,866.7 – under 2,666.6
60	30 – < 35	481 – < 561	1,600 – under 1,866.6
65	22.5 – < 30	360 – < 481	1,200 – under 1,600
70	15 – < 22.5	240 – < 360	800 – under 1,200
85	12 – < 15	192 – < 240	640 – under 800
92.5	10 – < 12	160 – < 192	533.4 – under 640
100	8 – < 10	128 – < 160	426.7 – under 533.3
125	6 – < 8	96 – < 128	320 – under 426.6
175	4 – < 6	64 – < 96	213.4 – under 320
250	2 – < 4	32 – < 64	106.7 – under 213.3
300	1 – < 2	16 – < 32	53.4 – under 106.6
400	< 1	< 16	under 53.3

density (lb/ft³) = weight (lb) ÷ (L × W × H in inches ÷ 1,728)

Measure each handling unit at its widest points, pallet included, rounding each side up to the next inch; weigh it as it ships. Some commodities keep a fixed NMFC class: check your item. Sources: NMFTA Docket 2026-1; XPO rules tariff CNWY 199-AK.3; Cole International. This chart is a planning aid, not a carrier tariff.

Free calculator: freightclasscheck.com **Updated 2026-10-14**