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# Transformer Oil Capacity Chart

Standard Reference for Oil-Immersed Distribution Transformers (ONAN)

## 1. Single-Phase Transformers (Pole Mounted)

kVA Rating	Oil Volume (Liters)	Oil Volume (Gallons)	Approx. Weight (kg)
5 kVA	15 - 20 L	4 - 5 gal	13 - 18 kg
10 kVA	25 - 30 L	6 - 8 gal	22 - 27 kg
15 kVA	40 - 55 L	10 - 15 gal	35 - 49 kg
25 kVA	60 - 80 L	16 - 21 gal	53 - 71 kg
37.5 kVA	80 - 100 L	21 - 26 gal	71 - 89 kg
50 kVA	100 - 130 L	26 - 34 gal	89 - 116 kg
75 kVA	140 - 170 L	37 - 45 gal	125 - 151 kg
100 kVA	180 - 210 L	48 - 55 gal	160 - 187 kg

## 2. Three-Phase Transformers (Distribution)

kVA Rating	Oil Volume (Liters)	Oil Volume (Gallons)	Approx. Weight (kg)
15 kVA	60 - 80 L	16 - 21 gal	53 - 71 kg
30 kVA	90 - 110 L	24 - 29 gal	80 - 98 kg
45 kVA	110 - 140 L	29 - 37 gal	98 - 125 kg
75 kVA	160 - 190 L	42 - 50 gal	142 - 169 kg
100 kVA	200 - 250 L	53 - 66 gal	178 - 223 kg
160 kVA	280 - 340 L	74 - 90 gal	250 - 302 kg
200 kVA	350 - 420 L	92 - 111 gal	311 - 374 kg
315 kVA	480 - 550 L	127 - 145 gal	427 - 490 kg

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kVA Rating	Oil Volume (Liters)	Oil Volume (Gallons)	Approx. Weight (kg)
500 kVA	650 - 800 L	172 - 211 gal	579 - 712 kg
630 kVA	800 - 950 L	211 - 251 gal	712 - 846 kg
800 kVA	1,000 - 1,200 L	264 - 317 gal	890 - 1,068 kg
1,000 kVA	1,200 - 1,500 L	317 - 396 gal	1,068 - 1,335 kg
1,600 kVA	1,600 - 2,000 L	423 - 528 gal	1,424 - 1,780 kg
2,000 kVA	2,100 - 2,600 L	555 - 687 gal	1,869 - 2,314 kg
2,500 kVA	2,600 - 3,200 L	687 - 845 gal	2,314 - 2,848 kg

\* Note 1: All values are approximate estimations for standard 11kV ONAN transformers.

\* Note 2: Include radiator/conservator volume when calculating.

\* Note 3: Density used for weight calculation: 0.89 kg/L.

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