LG HB4 18650 1,5Ah

778 cm²

$h_{cat} = [2] \cdot 50\,\mu m$

$p_{cat} = 0{,}76$

$C_{cat} = 133\ \frac{mAh}{g}$

$g_{1\_cat} = \frac{1500\,mAh}{133\,\frac{mAh}{g}} = 11{,}28\,g$

$V_{cat_2} = 7{,}78\,cm^2 \cdot 50\,\mu m = 3{,}89\,cm^3$

$d_{1\_cat} = \frac{11{,}28\,g}{3{,}89\,cm^3} = 2{,}9\,g/cm^3$

$d_{1\_cat} \frac{11{,}28\,g}{3{,}89\,(1-0{,}26)} = 3{,}92\,g/cm^3$

LG HG2 18650 3Ah

92 g/cm² ----> $V_{cat} = 9{,}66\,cm^3$

$V_{cat_2} = 9{,}28\,cm^2 \cdot 55\,\mu m = 4{,}8\,cm^3$

$h_{cat} = [2] \cdot 52\,\mu m$

$p_{cat} = 0{,}17$

$C_{cat} = 189\ \frac{mAh}{g}$

$g_{1\_cat} = \frac{3000\,mAh}{189\,\frac{mAh}{g}} = 15{,}87\,g$

$d_{1\_cat} = \frac{15{,}87\,g}{9{,}66\,cm^3} = 1{,}64\ g/cm^3$

$d_{2\_cat} = \frac{15{,}87\,g}{9{,}66 \cdot (1-0{,}17)} = 1{,}9\,g/cm^3$

$\frac{15{,}87\,g}{4{,}8\,cm^3} = 3{,}3\,g/cm^3$

$\frac{15{,}87}{4{,}8 \cdot (1-0{,}17)} = 3{,}98\,g/cm^3$

Samsung 25R 18650 2,5Ah

1036 cm² ----> $V_{cat} = 7{,}87\,cm^3$

$V_{cat_2} = 3{,}935\,cm^3$

$h_{cat} = [2] \cdot 38\,\mu m$

$p_{cat} = 0{,}09$

$C_{cat} = 179\ \frac{mAh}{g}$

$g_{1\_cat} = \frac{2500\,mAh}{179\,\frac{mAh}{g}} = 13{,}97\,g$

$d_{1\_cat} = \frac{13{,}97}{7{,}87} = 1{,}775\ g/cm^3 = 3{,}55\,cm^3$

$d_{2\_cat} = \frac{13{,}97}{7{,}87 \cdot (1-0{,}09)} = 1{,}95\ g/cm^3 = 3{,}9\,g/cm^3$

Samsung 48G 27700 4,8Ah

98 g/cm² ----> $V_{cat} = 14{,}0438\,cm^3$

$V_{cat_2} = 98\,cm^2 \cdot 71\,\mu m = 7{,}02\,cm^3$

$h_{cat} = [2] \cdot 71\,\mu m$

$p_{cat} = 0{,}13$

$C_{cat} = 199\ \frac{mAh}{g}$

$g_{1\_cat} = \frac{4800\,mAh}{199\,\frac{mAh}{g}} = 24{,}12\,g$

$d_{1\_cat} = 1{,}72\ g/cm^3 = \frac{24{,}12\,g}{14{,}0438\,cm^3}$

$d_{2\_cat} = \frac{24{,}12\,g}{14 \cdot (1-0{,}13)} = 1{,}98\,g/cm^3$

$\frac{24{,}12}{7{,}02} = 3{,}44$

$\frac{24{,}12}{7{,}02\,(1-0{,}13)} = 3{,}94$