

Below you will find the weights conversion table.

To illustrate, 2 examples:

Chrome steel balls in diameter 10 mm weigh 4.11 kg per 1000 pieces.

To calculate the weight of the same size in Plastic POM, for example, multiply 4.11 Kg by calculation factor 0.18 (see table below). Weight is then 0.7398 Kg per 1000 pieces.

Chrome steel balls in the diameter 16 mm weigh 16.84 Kg per 1000 pieces.

To calculate the weight of the same size in Aluminum, for example, multiply 16.84 Kg by a factor of 0.344 (see table below). Weight is then 5.7929 Kg per 1000 pieces.

Mind you, these are always theoretical weights, so they serve more as a guideline to make an estimate of total weights.

	Calculation factor	Density Kg/dm ³
Chrome steel 100Cr6	1,000	7,83
Epoxy glass	0,077	0,6
PP(Moplen)	0,121	0,9
LDPE(Low Density PE)	0,117	0,92
PE(Polyethylene)	0,121	0,95
HDPE(High Density PE)	0,123	0,96
WATER		1
PS(polystyrene)	0,134	1,05
PA(polyamide/Nylon)	0,144	1,14
Acrylic	0,150	1,18
PC (polycarbonate/Lexan)	0,153	1,2
PUR(Vulkollan)	0,161	1,26
PVC(Sicodur)	0,179	1,4
Torlon 4203	0,180	1,41
POM(Delrin)	0,180	1,42
Phenolic resin	0,239	1,87
PVDF	0,226	1,77
PTFE(Teflon)	0,275	2,15
Glass	0,320	2,5
Aluminium	0,344	2,69
Silicon Carbide SiC	0,399	3,125
Silicium Nitride Si3N4	0,421	3,3
Aluminium Oxide Al2O3	0,479	3,75
Ceramics	0,484	3,79
Titanium	0,576	4,51
Zirconium	0,766	6
AISI 420/440	0,987	7,75
Carbon Steel C10/C15	0,995	7,79
Chromstall 100Kar6 (SUCH 52100)	1,000	7,83
S2 Tool steel	1,000	7,83
Carbon Steel C45/C55/C65/C85	1,003	7,83
AISI 302/304	1,010	7,91
AISI 316/329	1,017	7,93
Messing	1,077	8,43
Hastelloy	1,131	8,85
Copper	1,140	8,93
Phosphor bronze	1,160	9,083
Stellite	1,134	8,88
Tungsten (Tungsten) Carbide	1,911	14,96