

Dome Capacity – Fertilizer

CAPACITY								
Dome Size (Diameter)	Volume (m³)		Weight (tonnes)					
			POTASH		UREA		MAP/DAP	
17 metre	369	(0.226)	415	(0.254)	284	(0.174)	355	(0.218)
21 metre	654	(0.331)	735	(0.372)	504	(0.255)	630	(0.319)
24 metre	1023	(0.446)	1150	(0.501)	788	(0.343)	985	(0.429)
27 metre	1479	(0.570)	1662	(0.641)	1139	(0.439)	1439	(0.549)
30 metre	1983	(0.694)	2229	(0.780)	1527	(0.534)	1910	(0.668)
33 metre	2553	(0.821)	2870	(0.923)	1966	(0.632)	2459	(0.791)
50'	247	(0.173)	278	(0.194)	190	(0.133)	238	(0.167)
61'	461	(0.262)	518	(0.294)	355	(0.202)	444	(0.252)
72'	752	(0.363)	845	(0.408)	579	(0.280)	724	(0.350)
82'	1118	(0.473)	1257	(0.532)	861	(0.364)	1077	(0.455)
91'	1552	(0.589)	1744	(0.662)	1195	(0.454)	1495	(0.567)
100'	2042	(0.707)	2295	(0.795)	1572	(0.544)	1966	(0.681)
116'	3228	(0.960)	3628	(1.079)	2486	(0.739)	3109	(0.924)
124'	4114	(1.128)	4624	(1.268)	3168	(0.869)	3962	(1.086)
136'	5034	(1.291)	5658	(1.451)	3876	(0.994)	4848	(1.243)
142'	6027	(1.455)	6774	(1.635)	4641	(1.120)	5804	(1.401)
150'	7037	(1.613)	7910	(1.813)	5418	(1.242)	6777	(1.553)

Notes:

- The dome size is nominal. The actual diameter varies due to segmented design.
- Building capacity is based on full charging with material at 30° angle of repose.
- First number given with regard to capacity is the capacity above foundation wall. The number in brackets is the additional capacity per millimeter of wall height.
- POTASH: density = 1.124 tonne/m³ (70 P.C.F.). Angle of repose = 30°
- UREA: density = .770 tonne/m³ (48 P.C.F.). Angle of repose = 30°
- MAP/DAP: density = .963 tonne/m³ (60 P.C.F.). Angle of repose = 30°