

**THEORETIC POWDER COATING COVERAGE CHART FOR TIGER PRODUCTS
(METRIC SYSTEM)**

In square meter per kilogram of surface to be powder coated (m²/kg).

specific gravity in grams per cubic centimeter (g/cm ³)	film thickness in microns (µm)									
	25 µm	50 µm	75 µm	100 µm	125 µm	150 µm	175 µm	200 µm	225 µm	250 µm
1.0	40.0	20.0	13.3	10.0	8.0	6.7	5.7	5.0	4.4	4.0
1.1	36.4	18.2	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6
1.2	33.3	16.7	11.1	8.3	6.7	5.6	4.8	4.2	3.7	3.3
1.3	30.8	15.4	10.3	7.7	6.2	5.1	4.4	3.8	3.4	3.1
1.4	28.6	14.3	9.5	7.1	5.7	4.8	4.1	3.6	3.2	2.9
1.5	26.7	13.3	8.9	6.7	5.3	4.4	3.8	3.3	3.0	2.7
1.6	25.0	12.5	8.3	6.3	5.0	4.2	3.6	3.1	2.8	2.5
1.7	23.5	11.8	7.8	5.9	4.7	3.9	3.4	2.9	2.6	2.4
1.8	22.2	11.1	7.4	5.6	4.4	3.7	3.2	2.8	2.5	2.2
1.9	21.1	10.5	7.0	5.3	4.2	3.5	3.0	2.6	2.3	2.1
2.0	20.0	10.0	6.7	5.0	4.0	3.3	2.9	2.5	2.2	2.0

tabular values in m²/kg

Theoretical yield values not found in the above table may be calculated using the following formula:

$$\frac{1.000}{(\text{specific gravity}) \times (\text{film thickness})} = \text{theoretical yield in m}^2/\text{kg}$$

Below some of the variables that may account for a difference between theoretical and actual yield:

- powder coating loss during the process of cleaning the booth, hoses, application equipment and fluid mixer
- powder coating loss through recycling in cyclone equipment
- unrecycled overspray
- variation in film thickness on the coated parts
- variable surface roughness (e.g. sandblasted parts)

Certified according to
ISO 9001 | 14001

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