

## 47110 Bone Black exclusive

Bone Black (C.I. Pigment Black 9) is also known as Ivory Black. It is created by grinding and sieving bone charcoal, which is produced from animal bones by dry distillation (carbonization) with the exclusion of air. Depending on the choice of raw material, more or less black pigments are obtained.

Ordinary bones have a large proportion of spongy structures. When charring, these smooth surfaces lead to gray particles due to the increased reflection of the light. If special care is taken when selecting the bones for black leg production, very deep black powder can be obtained. The manufacturer's over 100 years of experience with a large selection of available bone material enables the deep blackness of the leg black exclusively.

Bone Black exclusive is in oil almost deep black as real ivory black (12000). It is suitable for a wide variety of applications such as plastics, paints and varnishes, wood glazes, artists' paints, coil coatings, cement, mortar, paper, etc., especially if dull matt surfaces are required. The depth of the matt black pigment comes into its own particularly well in oil and synthetic resins. In aqueous techniques, the very fine-particle pigment is more difficult to paste and the color is not as deep black.

### Typical Physical Properties:

Density	2.52 g/cm <sup>3</sup>
Fineness	3 – 15 µm
Oil Absorption	0.50 – 0.70
Hegman	6.0 – 8.0
Tint Strength	221 +/- 2 %
Masstone	500 +/- 2 %

### Typical Chemical Properties:

Carbon (C)	9 – 11 %
CaO	48 %
P <sub>2</sub> O <sub>5</sub>	30 – 35 %
CO <sub>2</sub>	11 – 15 %
MgO	1.3 – 1.4 %
SiO <sub>2</sub>	0.5 – 4.0 %
Na <sub>2</sub> O	0.56 – 0.72 %
Al <sub>2</sub> O <sub>3</sub>	0.14 – 0.36 %
Fe <sub>2</sub> O <sub>3</sub>	0.13 – 0.23 %
SO <sub>3</sub>	0.13 – 0.22 %
Cl	0.13 – 0.22 %
K <sub>2</sub> O	0.06 – 0.16 %
BaO	< 0.06 %
SrO	< 0.06 %
ZnO	< 0.02 %
TiO <sub>2</sub>	< 0.04 %
Cr <sub>2</sub> O <sub>3</sub>	< 0.01 %
H <sub>2</sub> O	4.5 – 6.0 %

The above information is based upon X-Ray Spectrometry and ASTM Method D210 for matching Bone Black pigments.