



CRAFTING PHYSICALLY-BASED MATERIALS

Filament

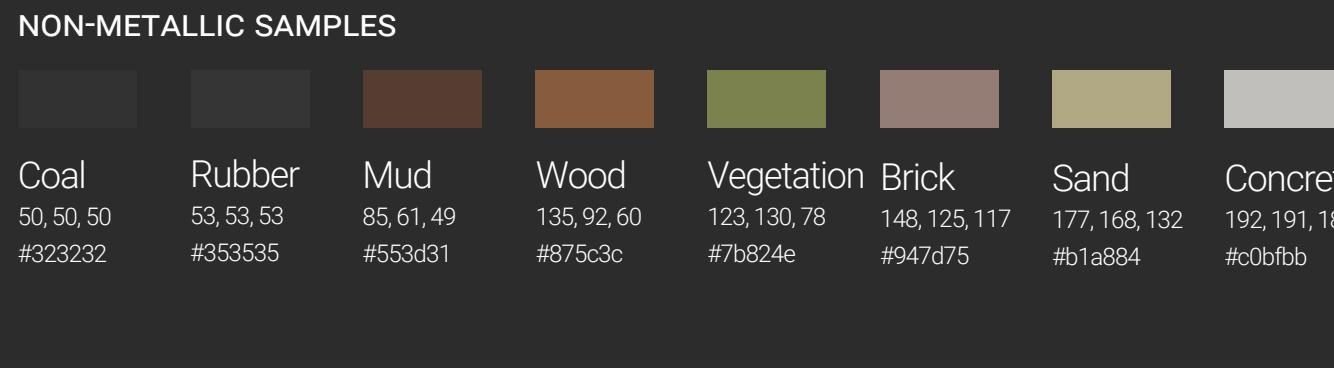
BASE COLOR/sRGB

Defines the perceived color of an object (sometimes called **albedo**). More precisely:

→ the **diffuse color** of a **non-metallic** object

→ the **specular color** of a **metallic** object

BASE COLOR LUMINOSITY



METALLIC SAMPLES

Silver 250, 249, 245 #faf9f5	Aluminum 244, 245, 245 #faf5f5	Platinum 214, 209, 200 #d6d1c8	Iron 192, 189, 186 #c0bdba	Titanium 206, 200, 194 #cec8c2	Copper 251, 216, 184 #fdb8b8	Gold 255, 220, 157 #fedc9d	Brass 244, 228, 173 #f4e4ad

NON-METALLIC SAMPLES

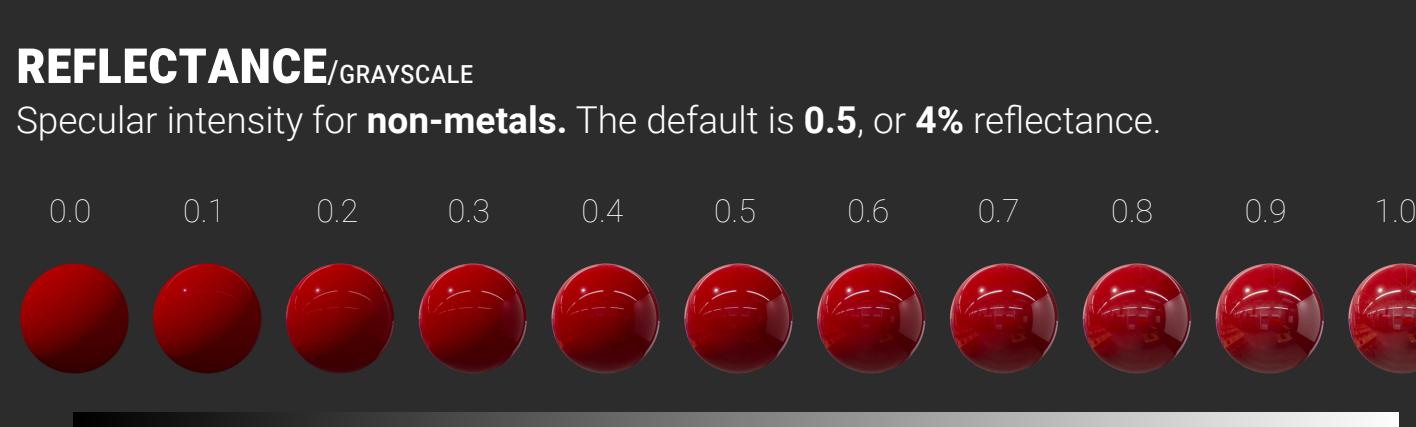
Coal 50, 50, 50 #323232	Rubber 53, 53, 53 #353535	Mud 85, 61, 49 #553d31	Wood 135, 92, 60 #875c3c	Vegetation 123, 130, 78 #7b824e	Brick 148, 125, 117 #947d75	Sand 177, 168, 132 #b1a884	Concrete 192, 191, 187 #c0fbfb

METALLIC/GRAVESCALE

Defines whether a surface is **dielectric** (0.0, **non-metal**) or **conductor** (1.0, **metal**).

Pure, unweathered surfaces are rare and will be either **0.0** or **1.0**.

Rust is not a conductor.

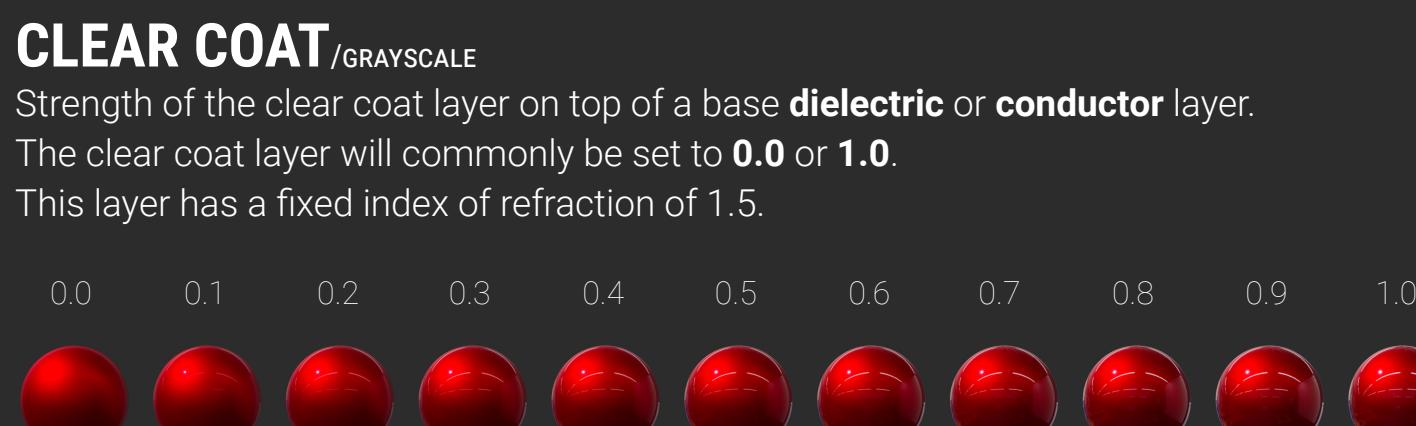


ROUGHNESS/GRAVESCALE

Defines the perceived **smoothness** (0.0) or **roughness** (1.0).

It is sometimes called **glossiness**.

NON-METALLIC



SAMPLES

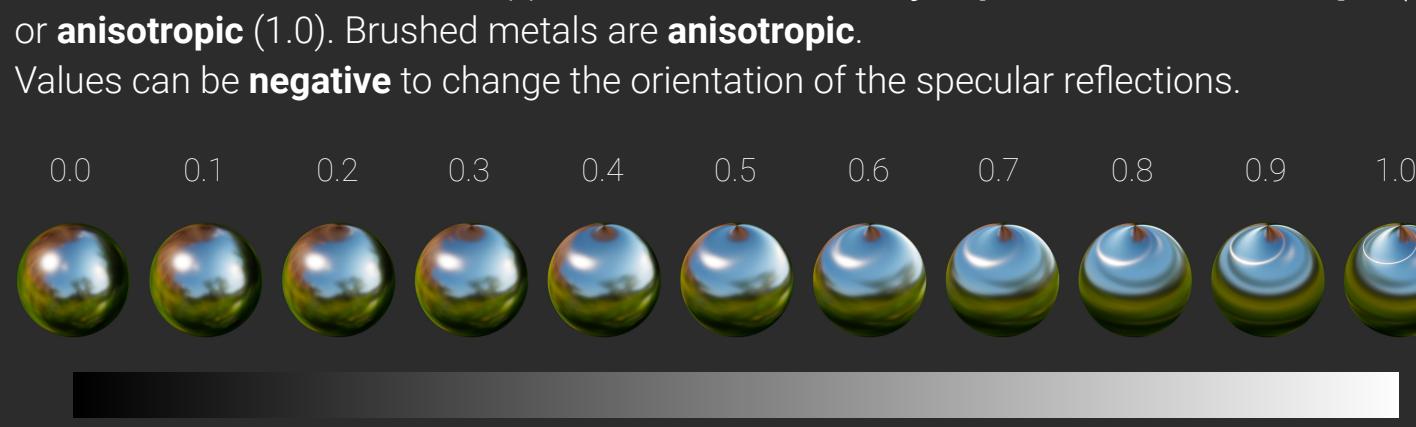
Water 90, 90, 90 2%	Glass 119, 119, 119 3.5%	Liquids 2% to 4%	Default 127, 127, 127 4%	Others 2% to 5%	Ruby 180, 180, 180 8%	Diamond 255, 255, 255 16%	Gemstones 5% to 16%

CLEAR COAT/GRAVESCALE

Strength of the clear coat layer on top of a base **dielectric** or **conductor** layer.

The clear coat layer will commonly be set to **0.0** or **1.0**.

This layer has a fixed index of refraction of 1.5.



CLEAR COAT ROUGHNESS/GRAVESCALE

Defines the perceived **smoothness** (0.0) or **roughness** (1.0) of the clear coat layer.

It is sometimes called **glossiness**.

This may affect the roughness of the base layer.

GLOSSY CLEAR COAT	Ruby	Diamond	Gemstones

ANISOTROPY/GRAVESCALE

Defines whether the material appearance is **directionally dependent**, that is **isotropic** (0.0) or **anisotropic** (1.0). Brushed metals are **anisotropic**.

Values can be **negative** to change the orientation of the specular reflections.

ISOTROPIC	Ruby	Diamond	Gemstones