



# Carbon Blacks | JET Coat

## Pigment Blacks in Powder Coatings

Physical Form	<b>Black Powder</b>
Appearance	<b>Pure Jet Black</b>
Specific Gravity	<b>1.47 Gm/cc</b>
Oil Absorption	<b>285 GM/100GM</b>
Mass Tone	<b>Comparable to std.</b>
Reducing Strength	<b>Comparable to std.</b>
Blackness Value My	<b>281</b>
Tinting Strength IRB 3 = 100	<b>112 %</b>
Ash Content	<b>0.02</b>
Coarse Particles	<b>N/A</b>
Loss on Heating	<b>Comparable to std.</b>
Volatile Matter at 950 °C	<b>18</b>
Compacted Density Powder	<b>120</b>
pH Value	<b>2.8</b>
Type	<b>High Color Channel</b>

### Typical Physio Chemical Properties

<b>Sieve Residue</b>	
325 Mesh (%)	<b>0.0400</b>
35 Mesh (%)	<b>0.0000</b>

<b>Iodine Number (mgm/gm)</b>	<b>82</b>
<b>Surface Area</b>	
Nitorgen Absorption (sqm/gm)	<b>83</b>
CTAB Absorption (sqm/gm)	<b>82</b>
<b>Tint % of ITRB</b>	<b>110</b>
<b>DBP Absorption (m/100mg.)</b>	
As Recd	<b>285</b>
24 M 4	<b>278</b>
<b>Pour Density (gms/lit.)</b>	<b>382</b>
<b>Toluene Discolouration</b>	<b>92.097</b>

### **Typical Vulcanizer Properties**

(ASTM D3192 D 412) Difference from (RB No.5)

Cure at 145 degrees C mins.	<b>15</b>	<b>30</b>
Modulus At 300% Elongation (kg/sq.cm)	<b>-2</b>	<b>-3</b>
Tensile Strength (kg/sq.cm)	<b>-8</b>	<b>-3</b>

## **Jetness levels in an epoxy resin powder coating with comparative pigment blacks (1.1% [WJC1])**

### **Tinting Strength**

**High Tinting strength compared to all other Pigment Blacks**

### **Jetness**

**Oxidized gas black of fine particle size with high jetness**

### **Undertone**

**Pronounced undertone**

### **Mass Tone Coloring**

**Recommended & successfully used for Mass Tone Application**

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