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## PRODUCT-INFORMATION

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### 1. Product Name

MECHANO-COND<sup>®</sup> 5VP3

Carbon black

CAS Nr. 1333-86-4

EINECS Nr. 245-609-9

C.I. Pigment black 7

### 2. Product Description

MECHANO-COND<sup>®</sup> 5VP3 is a electrical conductive and color strength carbon black pigment. It is easy to disperse with common facilities and easy to incorporate in polymers. Reinforcing properties has been shown in some elastomers like SBR, NBR and natural rubber. MECHANO-COND<sup>®</sup> 5VP3 is available as dust reduced micro granules.

### 3. Applications

- Coloring of paints and coatings.
- Production of toners and ink jet inks.
- Coloring of plastics (Masterbatch und Compounds)
- Pigment for pulp and paper
- Pigment for concrete
- Mechanical reinforcing of elastomers (rubber)
- Electrical conductive coatings and Polymes



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### 4. Technical Data

	PROPERTY	Target	Tolerance	Refer to ASTM Test Method
1	Iodine adsorption, mg/g	82	±5	D 1510
2	DBP absorption, ml/100g	102	±5	D 2414
3	CTAB adsorption, m <sup>2</sup> /g	77	±5	D 3765
4	Sieve reject 45 µm (US325), %		≤0.1	D 1514
5	Sieve reject 500 µm (US35), %		≤0.001	D 1514
6	Loss on heating at 125°C, %		≤1.0	D 1509
7	Ash content, %		≤0.75	D 1506
8	Pour density, pelletized carbon black, kg/m <sup>3</sup>	360	±40	D 1513
9	Fines content, %		≤8	D 1508
10	pH value	8.5	±1.5	D 1512
11	Sulfur content, %		≤1.1	D 1619
12	Modulus 300%, MPa	-1.0	±1.4	D 3192
13	Pellet strength, average (mv n=20), cN*		≤55	D 5230
14	Pellet strength, max (n=20), cN		≤85	D 5230
15	Toluene extraction, %		≥87	D 1618
16	Tint, %	-	-	-
17	DBP 24M4 Absorption, ml/100g	88	±5	D 3493
18	Reception temperature, °C		< 100	-

Information provided on this technical data sheet indicates the approximate physical and chemical properties of the material. No warranty is made either expressed or implied regarding the accuracy or the results to be obtained from the use of such information.