

# 产品说明书

**产品名称：**功能性炭黑

**产品型号：**橡胶专业炭黑（N115、N220、N234、N326、N330、  
N339、N375、N550、N660、N774）

功能性特种炭黑（TD-2.0、TD-20、TD-30、TD-35）

## 应用范围：

TD-2.0 适用于聚氨脂密封胶和丁基热熔胶制品

TD-20、TD-30、TD-35 适用于单组分硅酮密封胶制品

TD-20 适用于双组份硅酮密封胶制品

可用于油墨、涂料

N 系列炭黑适用于制造汽车类橡胶制品以及其他橡胶制品，如轮胎、胶管、胶带、胶鞋等。

## 产品特点：

- ★筛余物及杂质含量极低
- ★分散性好，制品光洁度好
- ★着色性能好
- ★制品加工性好
- ★高补强性，超耐磨性，抗撕裂性。



### 技术指标:

检验项目	TD-2.0	TD-20	TD-30	TD-35
氮吸附比表面积, m <sup>2</sup> /g	115	110	85	120
吸油值, 10-5m <sup>3</sup> /kg	115 ± 5	100 ± 5	70 ± 5	70 ± 5
着色力, ≥%	110	115	110	115
加热减量, ≤%	1.0	1.0	0.8	0.5
灰分, ≤%	0.6	0.5	0.5	0.5
45 μm 筛余物, ≤%	0.00	0.00	0.00	0.00
杂质	无	无	无	无
状态	粉状	粉状	粉状	粉状

指标	单位	N115	N220	N234	N326	N330	N339	N375	N550	N660	N774
吸碘值	g/kg	160 ± 5	121 ± 5	120 ± 5	82 ± 5	82 ± 5	90 ± 5	90 ± 5	43 ± 4	36 ± 4	29 ± 4
吸油值	10 <sup>-5</sup> m <sup>3</sup> /kg	113 ± 5	114 ± 5	125 ± 5	72 ± 5	102 ± 5	120 ± 5	114 ± 5	121 ± 5	90 ± 5	72 ± 5
压缩吸油值	10 <sup>-5</sup> m <sup>3</sup> /kg	97 ± 6	98 ± 6	102 ± 5	68 ± 5	88 ± 5	99 ± 5	96 ± 5	85 ± 5	74 ± 5	63 ± 5
着色强度	%	123 ± 8	116 ± 8	123 ± 8	111 ± 8	104 ± 8	111 ± 8	114 ± 8	-----	-----	-----
氮吸附比较面积	10 <sup>3</sup> m <sup>2</sup> /kg	137 ± 8	114 ± 5	119 ± 8	78 ± 5	78 ± 5	91 ± 5	93 ± 5	40 ± 5	35 ± 5	30 ± 5
外表面积	10 <sup>3</sup> m <sup>2</sup> /kg	124 ± 8	106 ± 5	112 ± 5	76 ± 5	75 ± 5	88 ± 5	91 ± 5	39 ± 5	34 ± 5	29 ± 5
加热减量	%	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
灰份	%	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
500 μm 筛余物	mg/kg	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
45 μm 筛余物	mg/kg	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500
倾注密度	kg/m <sup>3</sup>	345 ± 40	355 ± 40	320 ± 40	455 ± 40	380 ± 40	345 ± 40	345 ± 40	360 ± 40	440 ± 40	490 ± 40
300%定伸应力	Mpa	-1.4 ± 1.5	-1.9 ± 1.0	-0.0 ± 1.0	-3.5 ± 1.0	-0.5 ± 1.0	1.0 ± 1.0	1.0 ± 1.0	-0.5 ± 1.0	-2.2 ± 1.0	-3.7 ± 1.0
细粉含量	%	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 10	≤ 7	≤ 7

# Product specification

**Product:** Functional carbon black

**Product type:** special carbon black for rubber articles

( N115, N220, N234, N326, N330, N339,  
N375, N550, N660, N774 )

Functional special carbon black

( TD-2.0, TD-20, TD-30 and TD-35 )

## Application field

TD-2.0 is suitable for polyurethane sealant and butyl hot melt adhesive product.

TD-20, TD-30 and TD-35 is suitable for single component silicone sealant product.

TD-20 is suitable for double component silicone sealant product.

It can be applied in ink and coating.

N series used in automobile rubber articles and other rubber articles, such as tire, hose, belt and rubber shoes etc..

## Product characteristics:

- ★ Low content of sieve residue and impurities
- ★ Good dispersion and smooth product
- ★ Good coloring performance

- ★ Good processability of product
- ★ high reinforcement, super wear resistance and tear resistance.



### Technical data:

Inspection item	TD-2.0	TD-20	TD-30	TD-35
Nitrogen adsorption specific surface area, m <sup>2</sup> /g	115	110	85	120
Oil absorption value, 10-5m <sup>3</sup> /kg	115 ± 5	100 ± 5	70 ± 5	70 ± 5
Tinting strength ≥%	110	115	110	115
Heating loss, ≤%	1.0	1.0	0.8	0.5
Ash content, ≤%	0.6	0.5	0.5	0.5
45 μm sieve residue, ≤%	0.00	0.00	0.00	0.00
impurities	None	None	None	None
State	Powder	Powder	Powder	Powder

Technical index	Unit	N115	N220	N234	N326	N330	N339	N375	N550	N660	N774
Iodine absorption value	g/kg	160 ± 5	121 ± 5	120 ± 5	82 ± 5	82 ± 5	90 ± 5	90 ± 5	43 ± 4	36 ± 4	29 ± 4
Oil absorption value	10 <sup>-5</sup> m <sup>3</sup> /kg	113 ± 5	114 ± 5	125 ± 5	72 ± 5	102 ± 5	120 ± 5	114 ± 5	121 ± 5	90 ± 5	72 ± 5
CDBP	10 <sup>-5</sup> m <sup>3</sup> /kg	97 ± 6	98 ± 6	102 ± 5	68 ± 5	88 ± 5	99 ± 5	96 ± 5	85 ± 5	74 ± 5	63 ± 5
Tint	%	123 ± 8	116 ± 8	123 ± 8	111 ± 8	104 ± 8	111 ± 8	114 ± 8	-----	-----	-----
N <sub>2</sub> SA	10 <sup>3</sup> m <sup>2</sup> /kg	137 ± 8	114 ± 5	119 ± 8	78 ± 5	78 ± 5	91 ± 5	93 ± 5	40 ± 5	35 ± 5	30 ± 5
STSA	10 <sup>3</sup> m <sup>2</sup> /kg	124 ± 8	106 ± 5	112 ± 5	76 ± 5	75 ± 5	88 ± 5	91 ± 5	39 ± 5	34 ± 5	29 ± 5
Heating loss	%	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
ash content	%	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
500 μ m sieve residue	mg/kg	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
45 μ m sieve residue	mg/kg	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500
Pour density	kg/m <sup>3</sup>	345 ± 40	355 ± 40	320 ± 40	455 ± 40	380 ± 40	345 ± 40	345 ± 40	360 ± 40	440 ± 40	490 ± 40
300% modulus	Mpa	-1.4 ± 1.5	-1.9 ± 1.0	-0.0 ± 1.0	-3.5 ± 1.0	-0.5 ± 1.0	1.0 ± 1.0	1.0 ± 1.0	-0.5 ± 1.0	-2.2 ± 1.0	-3.7 ± 1.0
Fine powder content	%	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 10	≤ 7	≤ 7