



JOINT-STOCK COMPANY  
 «YAROSLAVSKIY TEKHNIЧЕСKIY UGLEROD named after V. U. ORLOV»

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**INSPECTION CERTIFICATE 3.1 (EN 10 204) Lab. rep. No 9576**

Date 2023-09-22

Producer Code: Carbon black N 220 (ASTM D1765)"code 405"  
 Plant address: Yaroslavl acc. PL-5 from 16.01.2023  
 Agent name: [REDACTED]  
 Lot No.: 377  
 Hopper No.: 59776724  
 Weight, kg: 49100

Result of specific tests

Property	ASTM Test method	Target	Tolerance	Actual
Iodine adsorption number, g/kg	D 1510	121	± 5	121.7
Oil absorption number, cm <sup>3</sup> /100 g	D 2414	114	± 5	112.8
Oil absorption number of compressed sample, cm <sup>3</sup> /100g	D 3493	98	± 5	101.5
External surface area (STSA), m <sup>2</sup> /g	D 6556	106	± 6	105.1
Tint strength, %	D 3265	116	± 5	116.0
Heating loss, %	D 1509		≤ 1.0	0.34
Ash content, %	D 1506		≤ 1.0	0.48
Fines content, %	D 1508		≤ 8.0	3.6
Sieve residue 45 μm (No. 325), %	D 1514		≤ 0.1	0.0280
Individual pellet hardness (average of 20), g	D 5230	27.5	± 17.5	19.90
Individual pellet hardness (average of 5 hardest), g	D 5230		≤ 75	31.50
Individual pellet hardness (max of 20), g	D 5230		≤ 85	38.0
pH value	D 1512	8.25	± 2.25	9.5
Reception temperature, °C	-		≤ 70	44

Production Line: 3

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 Z ORIGINALNEJ KOPII  
 16.09.2023  
 data  
 st. podpis  
 Anna Szwinto

*[Signature]*  
 Laboratory chief

ОТК  
 АО «ЯТУ имени В.Ю. Орлова»