

JSC “YATU NAMED AFTER V. U. ORLOV” CARBON BLACK’S
TECHNICAL DATA SHEET
(grades according to ASTM D1765)

PROPERTY	N121	N220	N231	N234	N299	N326	N330	N339	N347	N375	N539	N550	N650	N660	N750	N762	N772	N774	ASTM test method
Iodine adsorption number, g/kg	121±5	121±5	121±5	120±5	108±5	82±5	82±5	90±5	90±5	90±5	43±5	43±5	36±5	36±5	27±5	27±5	30±5	29±5	D1510
Oil absorption number, cm³/100g	132±5	114±5	92±5	125±5	124±5	72±5	102±5	120±5	124±5	114±5	111±5	121±5	122±5	90±5	120±5	65±5	65±5	72±5	D2414
Oil absorption number of compressed sample, cm³/100g	111±5	98±5	86±5	102±5	104±5	68±5	88±5	99±5	99±5	96±5	81±5	85±5	84±5	74±5	81±5	59±5	59±5	63±5	D3493
BET surface area (NSA), m²/g	122±5	114±5	111±5	119±5	104±5	78±5	76±5	91±5	85±5	93±5	39±5	40±5	36±5	35±5	27±5	29±5	32±5	30±5	D6556
External surface area (STSA), m²/g	114±5	106±5	107±5	112±5	97±5	76±5	75±5	88±5	83±5	91±5	38±5	39±5	35±5	34±5	27±5	28±5	30±5	29±5	D6556
Tint strength, %	119±5	116±5	120±5	123±5	113±5	111±5	104±5	111±5	105±5	114±5	-	-	-	-	-	-	-	-	D3265
Pour density, kg/m³	320±25	355±25	400±25	320±25	335±25	455±25	380±25	345±25	335±25	345±25	385±25	360±25	370±25	440±25	360±25	515±25	520±25	490±25	D1513
Heating loss, %, max	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	D1509
Toluene discoloration, %, min	90	90	90	90	90	85	85	75	75	75	80	80	80	75	75	50	70	75	D1618
Ash content, %, max	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75	D1506
Sieve residue 45 m (No. 325), ppm, max	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	D1514
Sieve residue 500 m (No. 35), ppm, max	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
Individual pellet hardness (average of 20), cN	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	15-100*	D5230
Individual pellet hardness (max of 20), cN, max	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	100*	
pH value	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	7-10	D1512
Sulfur content, %, max	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	D1619
Fines content, %, max	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	D1508

* - may be varied according to customer request