

## Sid Richardson Carbon Co. Certificate of Analysis

### Carbon Black

**Shipped From**

Sid Richardson Carbon Co.  
Borger

### Shipment Identification

<b>Purchase Order No</b>		<b>Container</b>	Hopper Car ✓
<b>ASTM Grade / Prod Code</b>	N550 ✓ 10023704 ✓	<b>Vehicle No.</b>	SRCK 3095 ✓
<b>Specification</b>	09/04/08	<b>Est. Weight</b>	98,000 Lb
<b>Date Shipped</b>	06/14/2010 ✓		
<b>Production Date</b>	06/03/2010		

### Physico-Chemical Properties

<u>Property</u>	<u>Value</u>	<u>Specification</u>	
		<u>Min</u>	<u>Max</u>
Oil Absorption No.	121.5	117.0	125.0
Iodine Adsorption No.	41.8	40.0	48.0
Tint Strength	55.6	55.0	65.0
Toluene Discoloration	98	85	100
Heating Loss, Bulk	0.4	0.0	0.7
Ash Content	0.42	0.00	0.70
Sieve Residue, 325M	0.0025	0.0000	0.0050
Fines, 5', Bulk	2.3	0.0	5.0
Pour Density	21.9	20.0	25.0
Pellet Hardness, High	52	0	75
Pellet Hardness, Avg	30	28	40
Pellet Size Dist, +10	0.5	0.0	10.0

**Comment:**

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Shelf Life: Indefinite Per ASTM D6914-07  
It is Recommended to check moisture after 1 year.

ASTM test methods were followed to produce this information and it is believed to be reliable and accurate. However, because of routine variance in conditions of preparation and testing, Sid Richardson Carbon Co. does not guarantee a duplication of these results by others. Question or discussion of these data may be addressed to:

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