



**REDUCES COSTS.
GUARANTEES QUALITY.
CARBON CONCENTRATE
FOR THE STEEL INDUSTRY.**

A REGIONAL RESOURCE.

Rheinbraun Brennstoff's LSC Lignite Special Coke is a fine-grained carbon concentrate used in metallurgical, chemical and other industrial processes.

LSC can be used to replace other carbon carriers such as dried anthracite, hard coal coke, (calcined) petroleum coke, needle coke, pitch coke or graphite.

LSC is produced by coking Rhenish lignite, extracted from RWE Power AG's opencast mines near Cologne.

LSC – made in Germany:

- From the region for the world: locally available resources are the basis for reliable and cost-optimised production in Germany.
- Consistent quality: production, sales and logistics are carried out strictly in accordance with a quality assurance system based on DIN ISO 9001.
- Long-term supply agreements: costs can be calculated years in advance.
- Environment: LSC is a safe and pollutant-free product.

LSC is available in grain sizes to suit your needs and is transported in bulk and in a wide variety of containers (sacks and big bags).

LSC products

LSC® GRAINS
(1–5 mm)



LSC® FINES
(< 1,6 mm)



CONSISTENTLY HIGH QUALITY.

Analysis reference	
Water	0,5 %
Ash	9,0 %
Volatile components (predominantly CO and CO ₂)	3,0 %
Fixed carbon	87,5 %
Sulphur	0,5 %
Free sulphur	0,05 %
Nitrogen	0,5 %
Hydrogen	0,4 %
Net calorific value (NCV)	29,9 MJ/kg

Properties and advantages:

- High quality
- High reactivity
- Consistently high process quality
- Safe to use
- For a wide range of industrial processes
- Affordable/cost-efficient
- Predictable operating costs over the long term
- Security of supply/long-term availability

LSC® PULVERIZED

(< 0,4 mm)



LSC® SUPER

(< 0,1 mm)



LOW-COST CARBURIZATION OF STEEL.

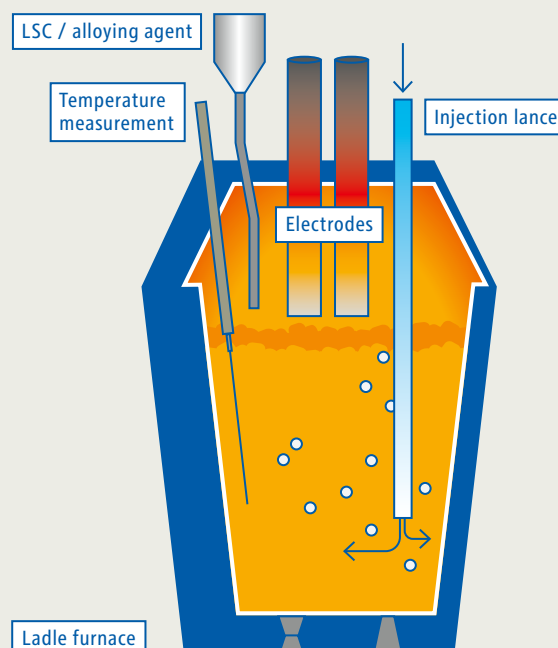
Carbon products such as lignite coke, dried anthracite, hard coal coke, calcined petroleum coke, needle coke, pitch coke or graphite are used for carburization.

Many steelworks use the lignite carbon concentrate LSC as a carburizing agent due to its special properties. Not least in order to fully replace relatively expensive carburization products such as graphite and needle coke.

Key benefits of LSC:

- LSC meets demanding metallurgical requirements.
- High reactivity and quick dissolution due to high porosity. The pore volume is approx. 50%. The specific surface area is 300m²/g.
- The product's excellent product dissolution performance leads to shorter handling times with reliable carbon content adjustment in molten steel.
- The ash has a high lime content (approx. 40%) with alkaline properties. Its basicity is comparable to that of steelworks slag. The coke ash blends homogeneously with the steelworks slag.

Carburization in steelworks



BOTH REGIONAL AND INTERNATIONAL.

RHEINBRAUN BRENNSTOFF

Rheinbraun Brennstoff, a business segment of RWE Power AG, produces and markets several million tonnes of refined products from its own production every year and supplies thousands of business customers worldwide. With our own production facilities and seamless intermodal logistics by ship, rail and lorry, we guarantee a high level of supply security.



RHEINBRAUN BRENNSTOFF

Rheinbraun Brennstoff GmbH

Ludwigstraße, 50226 Frechen,
Germany

E LSC@rwe.com

I rheinbraun-brennstoff.de

RWE
GROUP