



LSC LIGNITE
SPECIAL COKE

**PREDICTABLE COSTS.
CONSISTENT QUALITY.
CARBON CONCENTRATE FOR
ELECTRODE PRODUCTION.**

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)



PROVEN SOLUTION FOR GRAPHITIZATION.

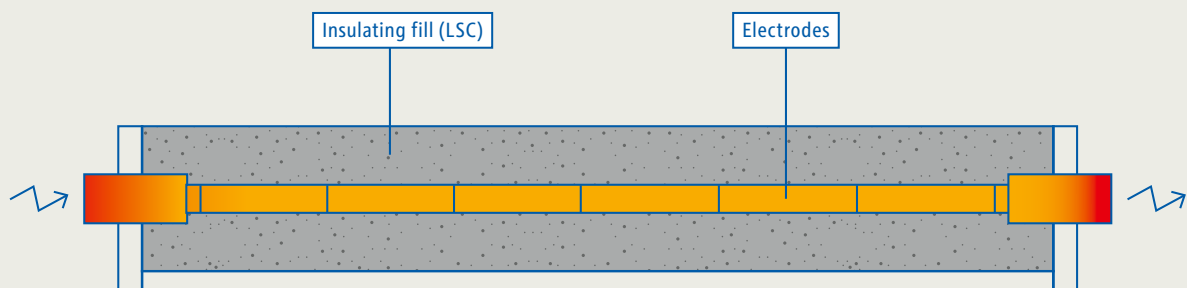
Longitudinal graphitization is the main type of graphitization used in the electric steel process. In the longitudinal graphitization furnaces, the electrodes, which can reach temperatures of up to 3,000°C, are surrounded by a bulk material that supports the electrode strand, protects it from oxidation, provides thermal insulation and removes the reaction gases.

Due to its favourable thermal insulation properties, relatively high specific electrical resistance, low sulphur content and ability to adsorb harmful gases, LSC is particularly suitable as insulating fill for longitudinal graphitization furnaces. This makes LSC the ideal product for manufacturing high-quality electrodes.

Key benefits of LSC:

- LSC requires little power to reach the graphitization temperature.
- Its high thermal insulation capacity ensures a low insulation density, short cooling time and high output.
- Its exceptional pourability and low caking tendency enable quick removal and easy processing of the bulk material.
- A reduced adhesion tendency reduces the cleaning effort required for the graphitized electrodes.

Longitudinal graphitization furnace



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.



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