

## **Teksid do Brasil: first foundry in the world to obtain carbon footprint certification**

*Through this initiative, the company achieved greenhouse gas emissions from engine block production 25% lower than the global industry average.*

Teksid do Brasil announces that, on 24 June 2011, it attained carbon footprint certification from the Carbon Trust for cast iron engine block production process.

This certification attests that the company monitors greenhouse gas emissions at all stages of the production, including raw material extraction, manufacturing and transportation to the customer.

Qualifying for carbon footprint certification from the Carbon Trust required every step in Teksid's production process to be certified according to the PAS 2050/DEFRA standard (i.e., specification for assessing greenhouse gas emissions of goods and services over their entire life cycle) issued by the UK Department for Environment, Food and Rural Affairs.

The company's carbon footprint certification number is: CTFCC/PAS/2011/CE/00005207.

### **STAGES IN THE CERTIFICATION PROCESS**

The certification process lasted about 10 months and focused primarily on quantifying greenhouse gas emissions per kilogram of engine block produced.

To model the carbon footprint, all information relating to the production cycle was taken into consideration, including an up-to-date version of the company's existing GHG inventory, a mapping of inputs, suppliers, customer locations and all associated transport use.

To ensure the validity of the data used to calculate the carbon footprint, additional information was collected during on-site visits to strategic suppliers as well as through preliminary questionnaires.

The results were entered into the mathematical model provided by Carbon Trust, which, after conducting its own analysis, granted certification to Teksid.

All work was undertaken with the assistance of the consulting company Geoklock, which conducted the study that revealed Teksid's greenhouse gas emissions from its engine block production process are 25% lower than the global industry average. "This certification is an important achievement for Teksid and it demonstrates their commitment to the sustainability of their business," said the President of Geoklock, Jaime Ohata.

### **Teksid**

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## COMPETITIVE ADVANTAGES

According to Teksid's industrial director, Jefferson Villafort, responsible behavior has always been fundamental to Teksid's business practices. "Teksid's in-depth knowledge of the impact of its production processes has enabled it to be a pioneer in several sustainability-focused initiatives," he explained.

The company was the first foundry in Latin America to obtain ISO 14001 certification (for environmental management) and one of the first in the industry to attain the international occupational health and safety standard, OHSAS 18001.

A pioneer in its industry, Teksid's achievement of the carbon footprint certification was primarily attributable to two notable elements in its process: the use of liquid pig iron, transported in special vehicles directly from the supplier to the plant, and the use of electric arc furnaces, which use a more sustainable energy base than the petroleum coke used in cupola furnaces, which generate significantly higher GHG emissions.

By attaining this certification, Teksid has assumed a commitment to continue to monitor and reduce the carbon footprint of its processes over the next two years.

For more information, visit: [www.geoklock.com](http://www.geoklock.com) and [www.carbontrustcertification.com](http://www.carbontrustcertification.com)

## ABOUT THE COMPANY

The Teksid Group is a leading producer of auto parts worldwide, with installed production capacity of 720,000 tons/year for cast iron components and 40,000, tons/year for aluminum components. Teksid is present around the world in countries such as Brazil, Italy, France, Portugal, Poland, China, the United States and Mexico.

With over three decades of experience, the Brazilian unit (located in Betim, Minas Gerais) is today the leading producer of engine blocks for cars and light and heavy commercial vehicles with an approximate 70% share of the domestic market. In Brazil, production capacity is 300,000 tons/year for cast iron components and 10,000 tons/year for aluminum components.

The company produces more than 200 different component types, including blocks and cylinder heads for diesel engines, manifolds, crankshafts, brake discs and drums, steering knuckles, suspension arms, and other medium and large components.

Teksid's customers include the world's leading auto and heavy duty engine and truck manufacturers.

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