

Press release

C.D. Wälzholz KG

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C.D. Wälzholz introduces enhanced materials for e-drives at the Coil Winding Exhibition 2013

Hagen, June 2013. At the Coil Winding Exhibition 2013 that ended last week in Berlin C.D. Wälzholz introduced the high-strength types (HS types) of grades NO 20 to 30 especially developed for electrical drives in automobiles. These enhanced materials ensure a high stability of the rotor packets in the e-drive due to their increased strength. At the same time, material technicians at the company in Hagen (Germany) were able to further reduce power losses with the same thicknesses and thus increase performance.

“Due to the high number of revolutions in automobile e-drives the rotor packets are subjected to strong mechanical strain,” Norbert Brachthäuser explains. He is in charge of quality and environment management at C.D. Wälzholz. “The HS types developed by us are further improved high-quality grades for the automotive industry and its suppliers. Based on the many interesting conversations we had at our stand, I am convinced that this grade optimisation will be very successful.”

For quite some time C.D. Wälzholz has been supplying special materials for e-drives, namely the grades NO 20 to 30. Electric drives in the automotive industry differ from classic industrial drives since the frequency range is up to 1,000 Hz whereas nominal frequencies in industrial drives are between 50 and 60 Hz. These particular requirements can only be met by steel materials with lowered thicknesses and a special chemical composition. The grades NO 20 to 30 – meaning non-oriented in thicknesses between 0.20 and 0.30 mm – meet these requirements.

Apart from that, another special product was met with interest by trade and business professionals. In cooperation with a lacquer and paint varnish supplier C.D. Wälzholz has further developed a special coating system for the automotive industry that allows for individual sheet laminations fins to be baked together to form entire packages. This so-called thermosetting Backlack varnish offers customers a bonding technology that makes refinishing operations unnecessary and ensures a particular tightness of the lamination fin packages due to high adhesive strength.

Electrical steel strip made by C.D. Wälzholz is not only used in the exacting area of automobile e-drives, but also wherever electric energy is generated or transformed into power, e.g. in wind generators, in the motors of high-speed trains, in compressors or in numerous domestic appliances.

**About C.D. Wälzholz**

The family-owned C.D. Wälzholz KG is situated in Hagen (Germany) and was founded in 1829. The company has 1,900 employees all over the world. At nine locations in Europe, the USA, South America and Asia the market leader produces more than 600,000 tonnes of high-quality cold rolled steel strip and profiles per year. With its wide range of steel materials C.D. Wälzholz offers tailor-made solutions for customers in the automotive industry, in energy generation as well as in the industrial goods area such as manufacturers of construction plant, electrical devices and cutting tools.

For further information see: www.cdw.de