INNOVATIONS

Two pages of the latest product innovations for steelmakers

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Articles from Tenova and Bloom Engineering

STEEL SAFETY DAY

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New rust-preventative coating launched

Cortec claims it has an 'excellent record of developing products that meet specific end user needs'. The company believes that its VpCI-277 ready-to-use dry film rust preventative, which is designed to preserve metals during storage and transportation, has solved a problem encountered by a major automotive manufacturer.

According to Cortec, the company was using a VpCl product to protect parts during temporary storage and overseas shipping. While pleased with the protection it offered, the automotive manufacturer needed a rust preventative with a drier film and a low VOC that would also meet its solvent-based specification.

They were in luck. Cortec developed VpCI-277, a rust preventative coating with a bio-based corrosion inhibitor in a non-flammable, low VOC solvent carrier. It is claimed that the product com bines film-forming additives with vapour-phase corrosion inhibitors in order to provide 'excellent multi-metal corrosion protection'. The product leaves a dry, non-tacky, virtually undetectable film on the metal surface and is further claimed to offer many advantages, including being ideal for robotic assembly of precision components that require tight tolerances. It also helps maintain a



clean preservation process because there is no oily residue. Lastly, the product contains no chlorinated compounds, chromates or nitrites.

The product conforms to the following standard test methods: ASTM D1748 (humidity), ASTM D1735 (water fog), MIL-C83993 (water

displacement) and NACE RPO487-2000 (selection of rust preventatives).

For further information, log on to www.cortecvci.com

SMS guenching line for Edelstahlwerke

SMS group has received a final acceptance certificate from Deutsche Edelstahlwerke GmbH (DEW) for a new quenching line at its Witten plant in Germany

The new line, installed downstream of an existing blooming mill, consists of a walking-beam furnace and a cooling section. According to SMS group, the project is one of DEW's most significant and biggest investments of the last few years.

The aim is to further enhance the quality of rolled products and make production more energy-efficient and climate-friendly.

DEW issued the FAC to SMS group in December last year, after less than two years of very close co-operation.

The new quenching line is the first of its kind in terms of layout. It has been designed for round bars in diameters ranging from 55mm to 250mm and lengths between 4m and 17m. Rolled grades include all stainless steels, including bearing steel; rust, acid and heat-resistant steels, and engineering and tool steels.

The new line uses the available rolling heat to set the desired material properties by a controlled bar quenching process. The bars are directly charged into the reheating furnace via a roller table and the furnace equalises the heat losses suffered by the material.

After the material has been reheated to a specified temperature, it is delivered to a cooling section in which it is cooled down uniformly and in a controlled manner to the desired end temperature. Then it is discharged from the rolling mill via the cooling bed.

SMS group supplied its Controlled Cooling Technology (CCT) and SMSPrometheus for determining and pre-calculating process parameters offline

For further information, log on to www.sms-group.com

