

Russian News

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БЕЛЗАН

БЕЛЕБЕЕВСКИЙ ЗАВОД АВТОНОРМАЛЕЙ

BelZAN Develops Fasteners from New Steel Grades

T.Sh. Galiakhmetov, Director for Technical Development of BelZAN, introduced plans to master the production of fasteners in new steel grades 36MnB4, 32CrB4 and 42CrMo4 to the participants in the conference "Fasteners. Quality and Responsibility". Manufacturing pilot batches of fasteners is planned for the current year. He noted the need for mastering the production of fasteners of strength classes 8.8 and 10.9 in Russia. It is economically and technologically expedient to use two steel grades for long parts in the automotive industry.

Production of Russian Equipment for Applying Zinc Coatings Has been Launched

Director of Khimsintez LLC (Dzerzhinsk, Nizhny Novgorod Region) V. Chumakov told the participants of the Conference "Fasteners, Quality and Responsibility" on the development of Russian industries regarding the application of zinc coatings. He gave information on the new coating, Netoks Zn LF. There was a marked increase in the use of zinc coatings in Russia. The speaker presented domestic equipment for applying zinc coatings. The company "ArtTron" (Dzerzhinsk, Nizhny Novgorod Region), with the consulting support of LLC "AntikorTech" (St. Petersburg), has created the first centrifuge in Russia for applying zinc coating. Launching a small coating installation that does not require a laboratory, treatment facilities, or a large staff of employees is a fairly convenient solution for fastener manufacturing companies.

Study of Operation of High-strength Steels in Bolted Joints Included by Ministry of Construction in Applied Research Program

Russian Ministry of Construction has approved the Applied Scientific Research Program for 2021. It includes a study of the operation of high-strength steels C390 and C440 in bolted joints. At present, as noted in the Program, there is no unified and standardized method for determining the mechanical properties of bolted joints made of high-strength steels C390 and C440; and therefore, the properties of rolled products at low temperatures are not taken into account. The lack of a unified methodology imposes a limitation on the possibility of using high-strength rolled products in bolted joints in the design and manufacture of metal structures.

In Russia, several tens of thousands of bridges require major repairs, of which about 3,000 bridges require immediate repair, including metal railway bridges. High-strength bolts with small dimensions are able to provide a detachable connection that is not inferior in strength to a welded one and surpasses a riveted one.

The use of bolts of a new type in the design and reconstruction of metal bridges will provide, among other advantages, the ability to be used in various climatic conditions. High-strength bolts of northern design can be used in harsh climates down to -60 °C or average cold temperatures down to -40 °C. The study is planned to be carried out in 2021 at the expense of the federal budget.



Severstal-metiz Expands Production of Railway Fasteners

Severstal-metiz has put new lines for the production of railway fasteners into operation. Severstal-metiz has extensive experience in production of railroad fasteners of various types. Also, Severstal-metiz is the exclusive supplier of Vossloh rail fastening elements. "The new lines will allow us to provide all of our customers with the required volumes of products", comments General Director of Severstal-metiz.



Oryol Steel Rolling Plant's Anchors Used in Construction of Kursk NPP-2

When erecting reactor buildings, builders use flexible anchor stops from Oryol Steel Rolling Plant. "When constructing such structures, the main thing is reliability and safety. For the production of flexible stops, we use special steel - hard, but at the same time plastic, we carefully select the annealing temperature to increase strength. The fasteners that we supply for the nuclear power plant have already been tested by time and have been used in the construction of many infrastructure facilities", comments Aleksey Erenichev, director of Oryol Steel Rolling Plant.



MMK-METIZ Passes Tests of Bolts for Rail Fastenings & Launches a Galvanizing Line for Small Fasteners

MMK-METIZ carried out standard tests on bolts for railway in accordance with GOST 16017-2014. The products have passed the tests.

As part of the investment program for 2020-2025, MMK-METIZ has launched a fully automated line for galvanizing small fasteners in diameters of up to 6 to 12 mm. The productivity of this line is 250 tons per month. ■

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