

## Severstal becomes Russia's first manufacturer of damping steel

PJSC Severstal, one of the world's leading vertically integrated steel and mining companies, presented a new vibration and sound absorbing damping steel, 01U5T, during a techno-breakfast organized by the All-Russian Society of Inventors and Innovators (ARSII).

The event attracted entrepreneurs and investors focused on innovative industries as well as industry representatives keen to discuss product and technology innovation. Severstal specialists presented samples of the new product, demonstrating its unique properties and its potential applications.

The damping steel can be used in transport infrastructure (for railways and subways, aircraft construction and shipbuilding and in the automotive industry), and also in the manufacturing of energy, household, ventilation and military equipment, and in mining, metalworking and other industries.

The properties of 01U5T steel include high elasticity and high vibration absorbency, making it suited to delivering structural rigidity and high damping. This combination makes it effective in combating noise and vibration, which are important considerations for the designers of today's megacities. The mechanical properties of 01U5T steel are comparable with those of standard 09G2C-295 construction steel, and the [cost of production/sale cost] is comparable with that of alloyed structural steel. The new steel can therefore be widely used in metal-intensive and serial products.

Peter Mishnev, Director of Technical Development and Quality at JSC Severstal Management, said:

"We are now in a position to finalise this steel grade to meet the requirements of a specific customer, including incorporating this material into a comprehensive solution for the manufacture of innovative products, such as modern vessels or electric motors."

Severstal developed the 01U5T steel in partnership with the Federal State Unitary Enterprise's Central Research and Development Institute. Their intention was to substitute expensive imports to the Russian market. The new product was developed at the Cherepovets Steel Mill, where the company produced and tested pilot batches. 01U5T steel can be produced in sheets and rolls and maintains its properties in both in hot-rolled and cold-rolled formats.

Severstal is the only company with a patent to produce damping steel in Russia.