

NIONE

WE TURN PRODUCTS INTO THEIR BEST VERSIONS THROUGH NANOTECHNOLOGY

We are **specialists in nanotechnology** and pioneers in the development, production, and commercialization of solutions using **niobium nanoparticles**.



New technological frontiers

The nanotechnology developed by NIONE enables new technological advancements in traditional and established markets like metals and welding. **We offer innovative solutions that not only redefine the use of niobium but also amplify its benefits at the nanoscale.**



A **FRASLE MOBILITY
AND RANDONCORP**
COMPANY

METAL ALLOYS AND WELDING

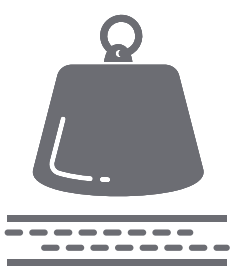
nanostructured with
nanoniobium NIONE

The incorporation of niobium nanoparticles in metal alloys and welding induces microstructural and macrostructural changes, particularly in yield strength and microstructure homogenization. These modifications directly impact the dynamic response of components, **contributing to improved fatigue life and overall quality.**

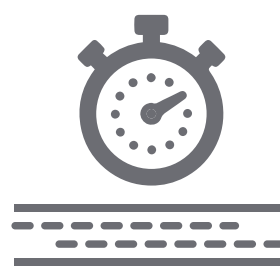
As a result, we enable more modern designs with greater freedom, significant optimization opportunities, and enhanced safety.



Enhancement of properties



**Increased
mechanical
strenght**



**Increased
fatigue
resistance**



**Mass
reduction**

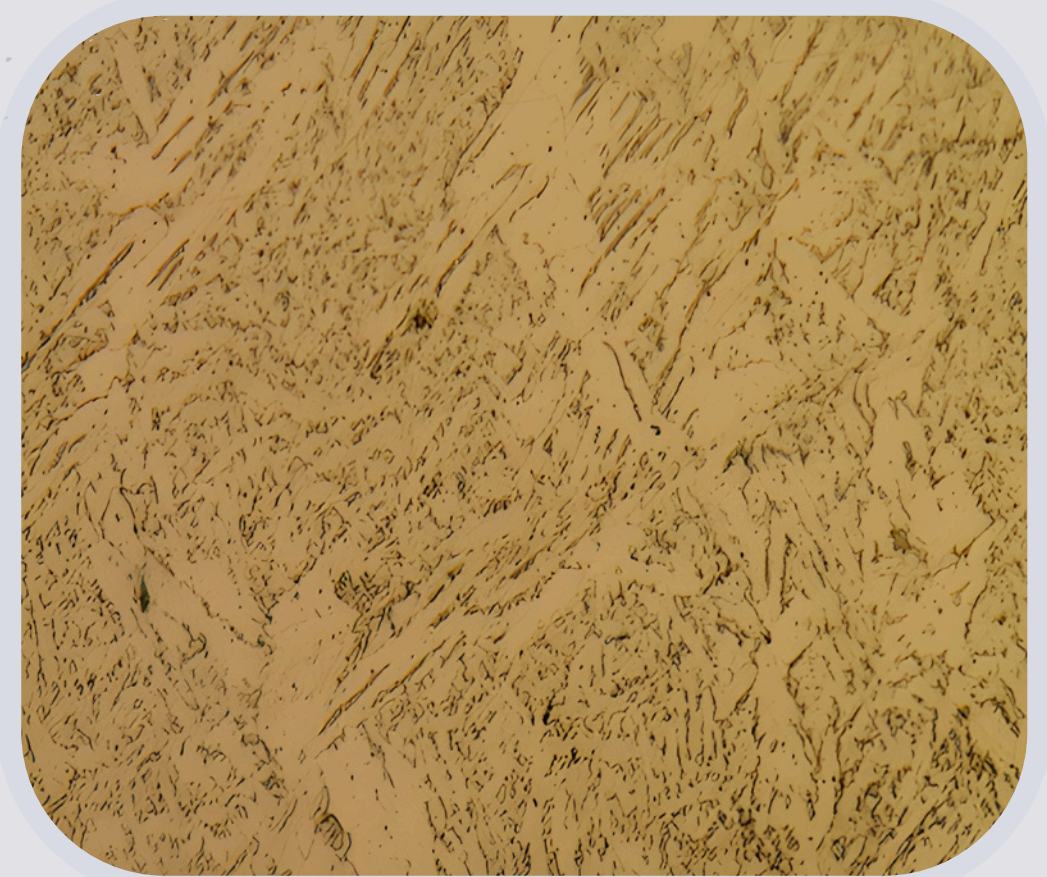


**Microstructure
homogenization
through grain
refinement**

**Technology suitable for ferrous and
non-ferrous metals, such as cast iron,
steel, and aluminum.**



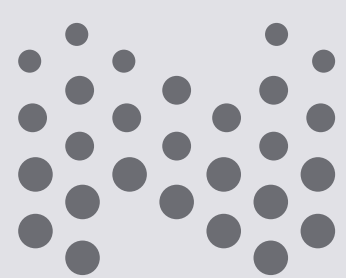
WITH NANONIOBIUM



WITHOUT NANONIOBIUM

Niobium-nanostructured weld microstructure in low-carbon steel

Our products are tailored to meet the needs of each customer, **enhancing benefits and facilitating the incorporation of the technology** into their production process.



NIONE

Be part of the **nano revolution.**

 **nione.tec**  **nione**