



Niobium N5

Niobium

*and the future of the
automotive industry*



41

Niob

Niobium

92.90637



Niobium

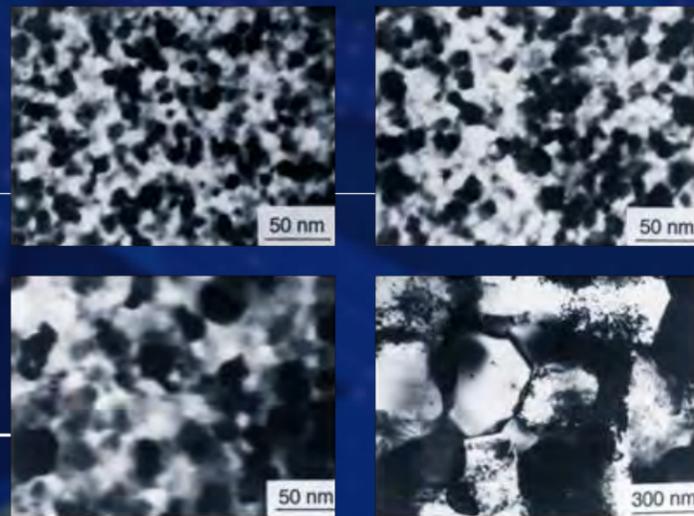
*Automotive
industry*

*Steels
structures*

Nanocrystal



Soft magnetic material



Nanocrystal



Niobium



Ribbon



Common Mode Choke
CMC Filters

Applications

Between power systems
and car controls

Between feeding systems
and inverters



Common Mode Choke **CMC Filters**

Benefits

Increase in
compatibility
—
Greater energy
efficiency

Better performance
in attenuation of
electromagnetic noise
—
Greater reliability
—
Miniaturization



- Reliability in filters
- Miniaturization
- Lower thermal variation



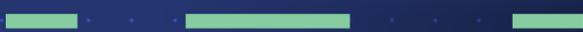
Wireless charger

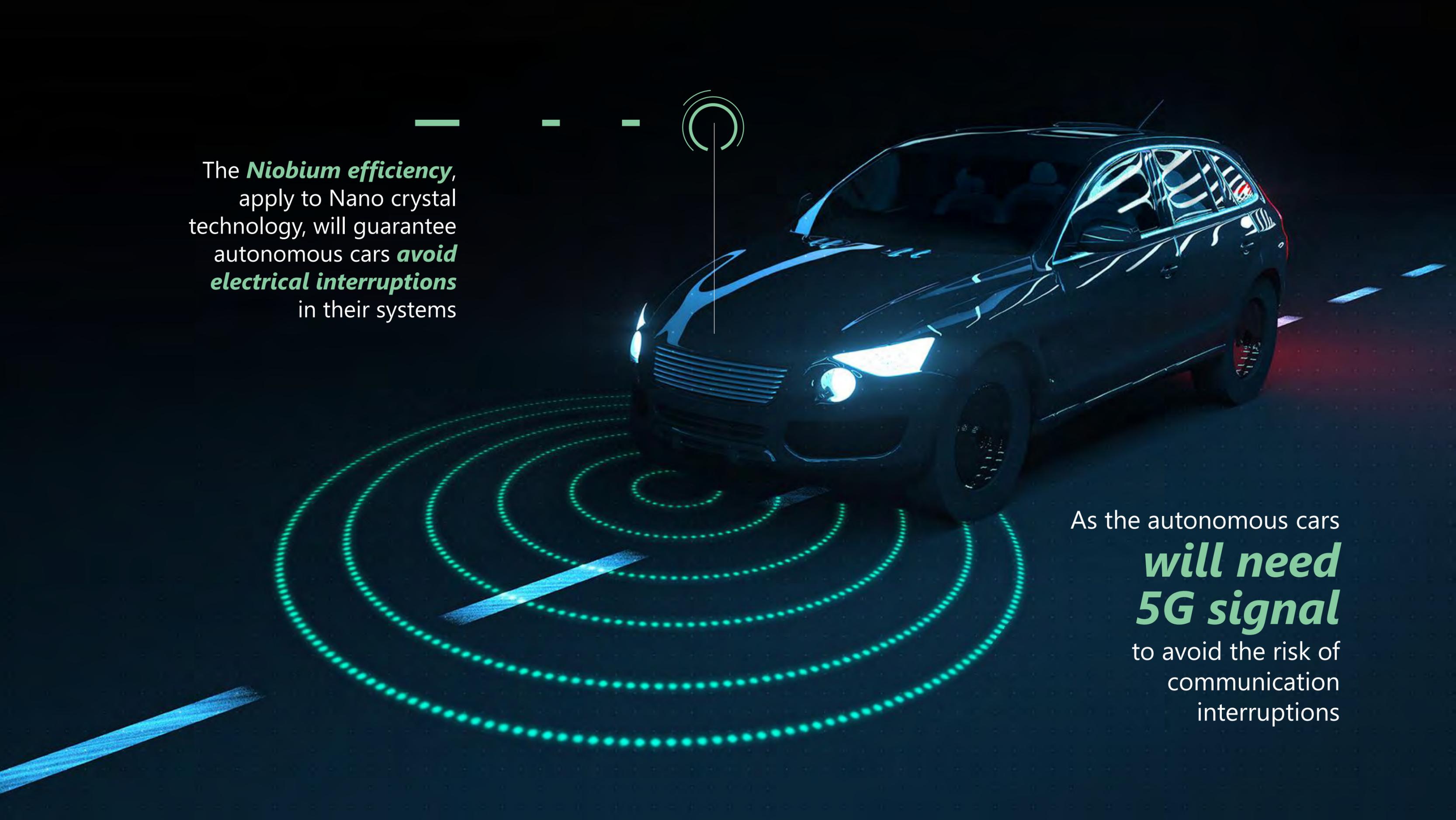


Weight reduction



Greater energy efficiency





The **Niobium efficiency**,
apply to Nano crystal
technology, will guarantee
autonomous cars **avoid
electrical interruptions**
in their systems

As the autonomous cars
**will need
5G signal**
to avoid the risk of
communication
interruptions

We are doing our part to
expand the participation
of the **nanocrystal**
in the market

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Niobium and nanocrystal

For the industry of today and tomorrow



The future

*of the automotive
industry products
efficiency is
connected to*

niobium

