

INDUCTION TEMPERED WIRE



ORI
MARTIN

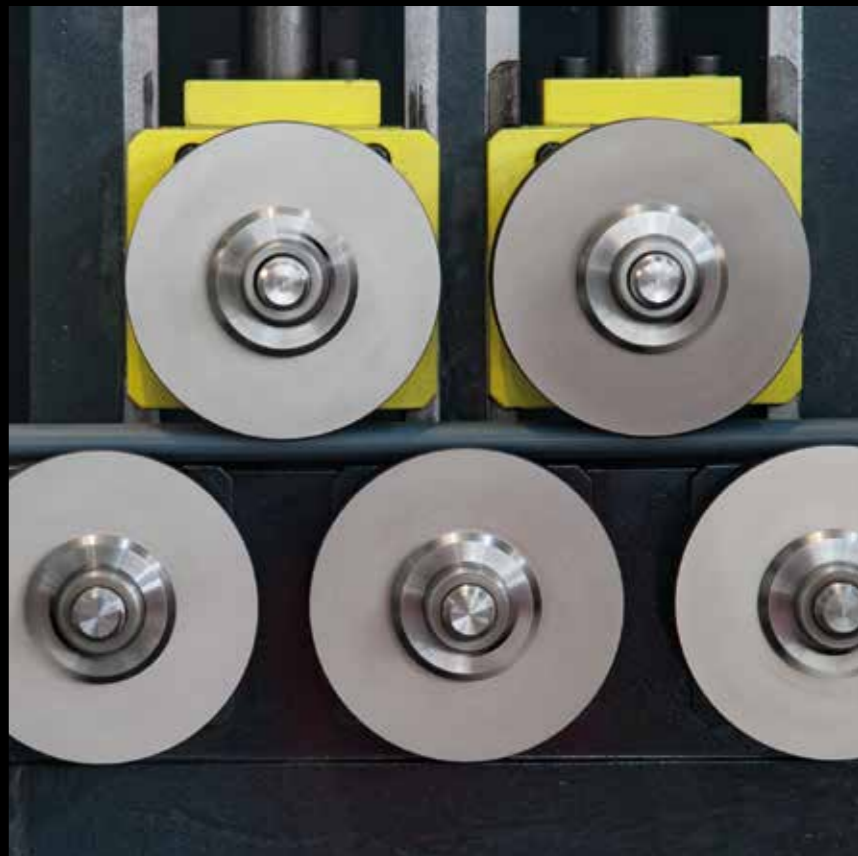




INDUCTION TEMPERED WIRE

A new IT wire line has been installed in Brescia's plant, the final part of a fully integrated process from continuous casting of billet to rolling of wire rod. Coils are handled with the utmost care, so as to preserve and protect their surface. ORI Martin Group is proud to offer a 100% controlled product, from raw materials to pre-tempered wire. 25 years of experience in the production of steel for suspension springs in the automotive sector have been one of the main reasons leading ORI Martin Group to invest in this new product. IT wire responds to the needs of cold coiled springs for high tensile strength and fatigue resistance. Pre-tempered wire can also be used in other different critical manufacturing fields.







PRODUCT CHARACTERISTICS

Steel grade	54SiCr6 - SAE 9254
Diameter's range	7 – 18 mm
Tolerance	+/- 0.04 mm
Out of round	< 75% of dimensional tolerance range
Coil weight	1.500 – 2.400 kg
Outer diameter	≤ 2350 mm
Inner diameter	≥ 1700 mm
Width	≤ 350 mm (below 2 tons weight) ≤ 450 mm (below 3 tons weight)
Packaging	No. 8 radial straps with paper wrapping

MECHANICAL PROPERTIES

Tensile strength Rm	1950 - 2050 MPa
Tensile strength variation Rm	in the same batch 60 Mpa in the coil 30 MPa
Yield strength Re	> 0.9

SURFACE

Oxides thickness	from 10 µm to 20 µm
Max surface defect depth	100 µm
Roughness	Ra ≤ 2,5 µm - Rz ≤ 15 µm
Decarburization	Total 0 µm Partial ≤ 50 µm

ON LINE NDT CONTROLS

COIL TO COIL DRAWING LINE	COIL TO COIL Q+T LINE
Foerster Circogaph RO20	Foerster Circogaph RO20
Foerster Defectomat	Foerster Defectomat
Diameter control by laser	Diameter control by laser
Marking	Detected surface defects shall be market clearly perceptible with white colour. The number of defects on a coil shall be indicated on the label and test certificates.





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