

Decarbonised steel fibre reinforcement



Recycled and renewably produced



ArcelorMittal Fibres

Reinforced concrete solutions

Decarbonised steel fibre reinforcement for tunnel construction projects around the world.

XCarb® recycled and renewably produced steel fibres, manufactured with recycled steel and 100% renewable electricity, provide an exceptionally low carbon footprint.

XCarb®

Recycled and renewably produced

ArcelorMittal Fibres has developed a range of XCarb® recycled and renewably produced steel fibres for the tunnel construction industry, for applications in:

- > Precast tunnel lining segments
- > Cast-in-place solutions
- > Shotcrete

Our XCarb® recycled and renewably produced steel fibres allow our customers to reduce the global CO₂ footprint of their projects and products, contributing to the decarbonisation of construction projects and making a positive contribution towards carbon neutrality.

Comparison of global warming potential (GWP) of different steel fibre production routes (Scope A1 - A3) 3000 Kg CO, - eq./t 2500 2500 2000 1500 1000 500 **365** 100% scrap **Fibres BOF Route** Fibres DRI Route XCarb® recycled and renewably produced steel fibres Showing kg CO,-eq./t **BOF** Basic Oxvaen Furnace when varying levels of **DRI** Direct Reduced Iron scrap are used

XCarb® recycled and renewably produced steel fibres can reduce embodied carbon by up to 85% compared to conventional steel fibres.

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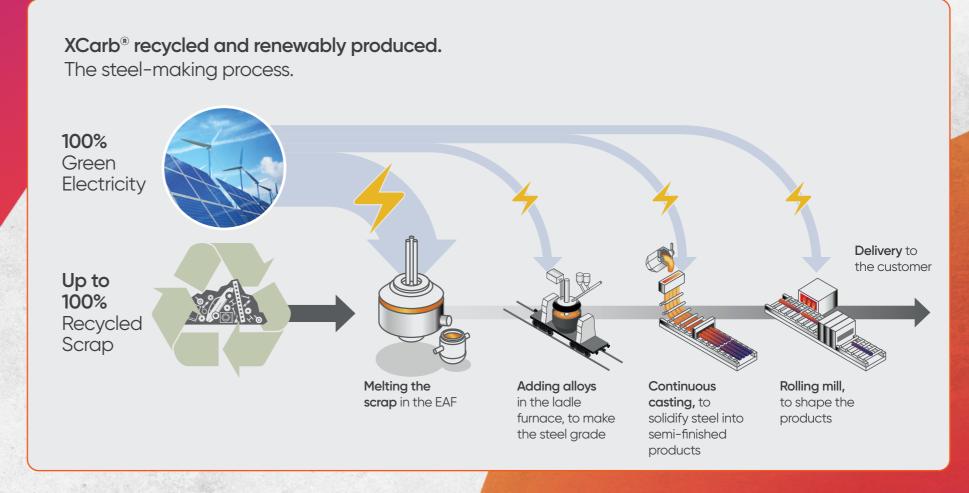
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All of the electricity needed to transform the scrap into XCarb® recycled and renewably produced steel products comes from renewable sources such as solar and wind power.

The origin of the electricity used in the XCarb® recycled and renewably produced steel-making and steel fibre manufacturing process is guaranteed through the "Guarantee of Origin" European system.

The XCarb® recycled and renewably produced order system is audited by a third party.

Each tonne of steel fibres produced under the XCarb® recycled and renewably produced label will have a dedicated production certificate showing the kg of CO₂/tonne (Scope A1 - A3) of steel used and indicating the recycled steel content.





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Steels for Planet

Smarter Let's talk People & | tunnels. Let's talk fibres.



Contact

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