

# Press Release

## **ArcelorMittal launches the second generation of its iCARE® electrical steels**

### **iCARE® offers more power and driving range for electric motors**

Berlin, 1 June 2017 - ArcelorMittal is officially launching the second generation of its iCARE® electrical steels at this year's coil-winding expo CWIEME in Berlin, from 20 to 22 June 2017. iCARE® steel grades play a central role in the construction of electric motors which are used in both electric vehicles and conventional cars.

ArcelorMittal launched iCARE®, its first electrical steel product range designed specifically to meet the requirements of the electric vehicle, at CWIEME in June 2012. For electric vehicles, the advantages of the new, second generation grades are the reduced use of electricity at all levels of performance, greater strength, less heat generation and improved magnetic properties. This results in improved engine performance and ultimately an increased driving range.

“The main challenge today continues to be the limited distance over which an electric car can be driven”, said Sigrid Jacobs, worldwide development director for ArcelorMittal's electrical steels. “That is why we support manufacturers of drive systems in their efforts to develop more efficient and better-performing motors by using improved materials like the new iCARE® steels.”

The second generation of iCARE® steels makes improved power density possible, compared with the first generation. This is reflected in less weight for the same motor performance, which in turn results in increased driving range.

This also applies to the many small motors on board the car, because an improved energy balance saves electricity and thereby extends the range. Sigrid Jacobs added: “The introduction of iCARE® into automobile construction allows the industry to bring more power and more driving range into the picture.”

The market for e-cars and e-bikes in Europe is growing strongly, and the number of electric motors used in both conventional and electric cars is also on the increase. In an average-priced conventional car,

there can be as many as 70 electric motors, operating everything from power windows, to headlight controllers, to power seat positioners. Luxury cars raise the number of motors to more than 100.

Press contact: Arne Langner, +49 221 5729 219, [arne.langner@arcelormittal.com](mailto:arne.langner@arcelormittal.com)

## **About ArcelorMittal**

### *Germany*

*ArcelorMittal, with a production volume of around 8 million metric tonnes of crude steel, is one of Germany's largest steel manufacturers. Its customers include the automotive, construction and packaging industries as well as the household goods sector. The company operates four large production sites in Germany. These include two integrated flat steel plants in Bremen and Eisenhüttenstadt in addition to two long products plants in Hamburg and Duisburg. ArcelorMittal also maintains a strong sales network in Germany and has seven steel service centres as well as 16 distribution centres. ArcelorMittal employs a workforce of more than 9,000 in Germany.*

<http://deutschland.arcelormittal.com>

### *About ArcelorMittal*

*ArcelorMittal is the world's leading steel and mining company, with a presence in more than 60 countries and an industrial footprint in over 20 countries. Guided by a philosophy to produce safe, sustainable steel, we are the leading supplier of quality steel in the major global steel markets including automotive, construction, household appliances and packaging, with world-class research and development and outstanding distribution networks.*

*Through our core values of sustainability, quality and leadership, we operate responsibly with respect to the health, safety and well-being of our employees, contractors and the communities in which we operate.*

*For us, steel is the fabric of life, as it is at the heart of the modern world from railways to cars and washing machines. We are actively researching and producing steel-based technologies and solutions that make many of the products and components we use in our everyday lives more energy-efficient.*

*We are one of the world's five largest producers of iron ore and metallurgical coal and our mining business is an essential part of our growth strategy. With a geographically diversified portfolio of iron ore and coal assets, we are strategically positioned to serve our network of steel plants and the external global market. While our steel operations are important customers, our supply to the external market is increasing as we grow.*

*In 2016 ArcelorMittal had revenues of \$56.8 billion and crude steel production of 90.8 million tonnes, while own iron ore production reached 55.2 million tonnes.*

*ArcelorMittal is listed on the stock exchanges of New York (MT), Amsterdam (MT), Paris (MT), Luxembourg (MT) and on the Spanish stock exchanges of Barcelona, Bilbao, Madrid and Valencia (MTS).*

<http://corporate.arcelormittal.com>