

## ArcelorMittal FB 590 HHE Hot rolled ferrite-bainite steel

Category : Metal , Ferrous Metal , Alloy Steel

**Material Notes:**

Description: This range of hot-rolled high strength steels has been developed to meet weight reduction requirements. It comprises four strength levels: FB 450, 540, 560 and 590. This family of steels extends the HSLA range of micro-alloyed steels to include products combining high tensile strength (UTS) with excellent formability and hole expansion (stretch flangeability) based on their ferrite-bainite microstructure. Applications: These steels are cold-drawn. The main applications are: structural parts (longitudinal beams, cross beams, car-body and ground liason parts), wheels, mechanical parts (ground liason parts, gear boxes...). ArcelorMittal has an extensive database relating to the forming and service properties of the entire range of ferrite-bainite steels. To integrate these steels at the design stage, a team of experts is available to perform specific studies based on modeling or laboratory tests. Information provided by ArcelorMittal

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ArcelorMittal-FB-590-HHE-Hot-rolled-ferrite-bainite-steel.php](http://www.lookpolymers.com/polymer_ArcelorMittal-FB-590-HHE-Hot-rolled-ferrite-bainite-steel.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	590 - 670 MPa	85600 - 97200 psi	
Tensile Strength, Yield	480 - 600 MPa	69600 - 87000 psi	
Elongation at Break	>= 21 %	>= 21 %	L<Sub>0</sub>=80 mm, th<3 mm
	>= 21 %	>= 21 %	L<Sub>0</sub>=5.65v <Sub>0</sub> mm, th<3 mm

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.050 %	<= 0.050 %	
Iron, Fe	>= 97.15 %	>= 97.15 %	as balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Silicon, Si	<= 0.80 %	<= 0.80 %	

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