

ArcelorMittal FB 560 Hot rolled ferrite-bainite steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Available in the following: Extragal® (HDT560F+Z) 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-560-Hot-rolled-ferrite-bainite-steel.php

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------|----------------------|--|
| Tensile Strength, Ultimate | 560 - 640 MPa | 81200 - 92800 psi | |
| Tensile Strength, Yield | 450 - 530 MPa | 65300 - 76900 psi | |
| Elongation at Break | >= 17 % | >= 17 % | L₀=80 mm, th<3 mm |
| | >= 22 % | >= 22 % | L₀=5.65v ₀ mm, th<3 mm |
| Fatigue Strength | <= 450 MPa | <= 65300 psi | |
| | @# of Cycles 2.00e+6 | @# of Cycles 2.00e+6 | |
| | <= 450 MPa | <= 65300 psi | |
| | @# of Cycles 1.00e+7 | @# of Cycles 1.00e+7 | |
| | <= 510 MPa | <= 74000 psi | |
| | @# of Cycles 100000 | @# of Cycles 100000 | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|------------|------------|------------|
| Carbon, C | <= 0.10 % | <= 0.10 % | |
| Iron, Fe | >= 98.15 % | >= 98.15 % | as balance |
| Manganese, Mn | <= 1.6 % | <= 1.6 % | |
| Silicon, Si | <= 0.15 % | <= 0.15 % | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China