

ArcelorMittal FB 450 Hot rolled ferrite-bainite steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Available in the following: uncoated (HDT450F) and Extragal® (HDT450F+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-450-Hot-rolled-ferrite-bainite-steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	450 - 510 MPa	65300 - 74000 psi	
Tensile Strength, Yield	300 - 380 MPa	43500 - 55100 psi	
Elongation at Break	>= 25 %	>= 25 %	L₀=80 mm, th<3 mm
	>= 32 %	>= 32 %	L₀=5.65v ₀ mm, th<3 mm
Fatigue Strength	<= 320 MPa	<= 46400 psi	
	@# of Cycles 2.00e+6	@# of Cycles 2.00e+6	
	<= 320 MPa	<= 46400 psi	
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	<= 400 MPa	<= 58000 psi	
	@# of Cycles 100000	@# of Cycles 100000	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.17 %	<= 0.17 %	
Iron, Fe	>= 98.98 %	>= 98.98 %	as balance
Manganese, Mn	<= 0.80 %	<= 0.80 %	
Silicon, Si	<= 0.050 %	<= 0.050 %	

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