

ArcelorMittal MartINsite® 1500 Cold Rolled Steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Description: The family of MartINsite® steels extends ArcelorMittal's range of Ultra High Strength Steels (UHSS). These steels allow the realization of lightweight structural elements by a forming method such as roll forming. To achieve maximum weight reduction while maintaining a very good anti-intrusion during the crash properties, some parts require the use of UHSS, such as the sills and door reinforcements, have simple shapes, and therefore the steel is slightly deformed. For this reason, ArcelorMittal has complemented its offer with the family of MartINsite® steels with very high yield strength delivery and interesting properties of bending deformation and a very good formability of the cut edges.
Application: Thanks to their excellent mechanical properties, these grades are particularly suitable for automotive safety parts for shock resistance. Typical parts are shown in the figure below: Front and rear bumper beams, Door beam, Side Sill Reinforcement, Roof cross member.
Information provided by ArcelorMittal

Order this product through the following link:

http://www.lookpolymers.com/polymer_ArcelorMittal-MartINsite-1500-Cold-Rolled-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	1200 - 1700 MPa	174000 - 247000 psi	
Tensile Strength, Yield	1200 - 1500 MPa	174000 - 218000 psi	
Elongation at Break	>= 3.0 %	>= 3.0 %	L₀=80 mm, th<3 mm
Fatigue Strength	<= 880 MPa	<= 128000 psi	
	@# of Cycles 2.00e+6	@# of Cycles 2.00e+6	
	<= 880 MPa	<= 128000 psi	
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	<= 930 MPa	<= 135000 psi	
	@# of Cycles 100000	@# of Cycles 100000	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.25 %	<= 0.25 %	
Iron, Fe	>= 97.25 %	>= 97.25 %	as balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Silicon, Si	<= 0.50 %	<= 0.50 %	

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