

ArcelorMittal Complex Phase Steel 600 Very high strength steel, Cold Rolled Steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Available in the following: uncoated (HCT600C) and electrogalvanized (HCT600C+ZE)Description: The Complex Phase family of steels supplements ArcelorMittal's VHSS (very high strength steel) product range. These steels are cold formed to make lightweight structural elements. A number of automotive parts, such as sills and door reinforcements, have simple shapes and the steel is therefore only slightly deformed. For this reason, ArcelorMittal has added the Complex Phase family of steels to its range. These steels offer high as-delivered yield strength and good bendability and stretch flangeability.Applications: Given their high energy absorption capacity and fatigue strength, these grades are particularly well suited for automotive safety components requiring good impact strength and for suspension system components.Information provided by ArcelorMittal

Order this product through the following link:

http://www.lookpolymers.com/polymer_ArcelorMittal-Complex-Phase-Steel-600-Very-high-strength-steel-Cold-Rolled-Steel.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	600 - 700 MPa	87000 - 102000 psi	
Tensile Strength, Yield	360 - 440 MPa	52200 - 63800 psi	
Elongation at Break	>= 19 %	>= 19 %	L₀=80 mm, th<3 mm
Fatigue Strength	<= 495 MPa	<= 71800 psi	
	@# of Cycles 2.00e+6	@# of Cycles 2.00e+6	
	<= 495 MPa	<= 71800 psi	
	@# of Cycles 1.00e+7	@# of Cycles 1.00e+7	
	<= 580 MPa	<= 84100 psi	
	@# of Cycles 100000	@# of Cycles 100000	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Iron, Fe	>= 97.9 %	>= 97.9 %	as balance
Manganese, Mn	<= 1.6 %	<= 1.6 %	
Silicon, Si	<= 0.40 %	<= 0.40 %	

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