ENLIGHTEN® $\wedge W \wedge RD 2018$





Winner : Enabling Technology



United States Steel Corporation Martensitic Advanced High Strength Steels for Low Mass Structural Components

Martensitic steels are being introduced into the automotive market with ultimate tensile strengths exceeding 1500 MPa. These new martensitic steels are manufactured from lean chemistries that in years past would not be expected to deliver high strength. However, advances in continuous annealing technology have enabled the Gigapascal strength to be achieved consistently and repeatedly in mass production. In addition, advanced process controls deliver these martensitic steels with superior shape control. The manufacturer and the customer benefit from the martensitic steel sheet's flatness and strength with improved dimensional accuracy of their high strength, low mass structural automotive components.

Category: Enabling Technology

Weight Savings: 10% Lighter than other steels

Application: 2019 Chevrolet Silverado

Methodology: **Design Optimization**

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