

ArcelorMittal Zagnelis™ ZM90 Double-sided ZnMgAl galvanized steel

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Presentation: Zagnelis™ coating has been specially designed to improve corrosion protection of vehicles, while satisfying OEMs' specifications regarding manufacturability: stamping, welding, adhesive bonding, painting process. More specifically, it offers a corrosion resistance much superior to the one of traditional zinc-based coatings. Presence of Magnesium in the coating leads to the formation of compact and very stable corrosion products during the early stages of corrosion and thus decreases coating consumption kinetics and reinforces cut edges protection. Furthermore, Zagnelis™ coating presents an excellent stamping ability due to outstanding tribological properties for a zinc-based coating.

Applications: Because of its high corrosion protection capacity, Zagnelis™ coating is recommended for numerous automotive applications. It is specifically recommended for parts requiring strengthened corrosion protection: confined and hollow areas, hem flanges. Zagnelis™ coating can contribute to reduce needs for additional corrosion protections measures such as waxes and sealers. It aims at answering car makers needs in terms of anti-corrosion warranty cost reduction. It also opens real perspectives of synergy and robustness when associated to new surface treatments and painting processes. For some applications, Zagnelis™ coating can advantageously replace traditional high-thickness zinc coatings (thicker than 20µm), ensuring better performances in weldability, stampability and durability. It can also be figured out as an alternative to post-galvanizing and post-painting processes.

Technical characteristics:

Surface appearance: The crystalline structure of Zagnelis™ coating is not visible with the naked eye. Its high surface quality leads to a finished paint appearance meeting the requirements of the automotive industry for non-visible or semi-visible bodywork parts. Developments are running for surface quality optimization in order to allow manufacturing of exposed parts.

Hardness: Because of its multiphased structure (Zn/Al/MgZn₂ ternary eutectic associated to primary Zinc), Zagnelis™ ranges among hard coatings.

Information provided by ArcelorMittal

Order this product through the following link:

http://www.lookpolymers.com/polymer_ArcelorMittal-Zagnelis-ZM90-Double-sided-ZnMgAl-galvanized-steel.php

Physical Properties	Metric	English	Comments
Coating Weight	>= 45.0 g/m ²	>= 28.1 lb/ream	per side
	>= 90.0 g/m ²	>= 56.3 lb/ream	double-sided

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