S250GD+ZM

Structural steels

Material no.	1.0242
according to	DIN EN 10346/
	DIN EN 10143
	BINENIOLIO

General properties of StronSal®

StronSal[®], a newly developed hot-dipped coating for steel products, provides ultimate corrosion protection properties that add up to a high performance coating for all applications where zinc-plated steel is essential.

• StronSal® consists of zinc and small fractions of magnesium (1 to 2%) and aluminium (1 to 2%).

• StronSal® offers extraordinary corrosion protection with coating layers of constant properties and considerably reduced thickness by comparison with standard hot-dip galvanized layers (Z). Salt spray tests returned a corrosion resistance four to five times higher compared to standard zinc coating.

• StronSal® convinces with superior varnish adhesion.

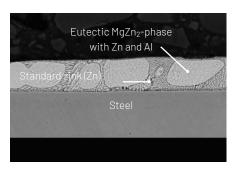
• StronSal® offers improved cutting edge protection. Thanks to its special resistance against corrosion, the protective effect achieved with this anticorrosive plating is significantly higher than the effects produced by standard products, in many cases also after processing.

• StronSal® offers tremendous resource saving potential thanks to the zinc savings achieved. Our latest product developments make substantial, sustained contributions to environmental protection.

StronSal® layer - cross section

The cross-section polish of the StronSal® coating shows the difference: The Mg- and Al-alloys are visible as a high-contrast phase within the zinc layer.

They effectively influence the anti-corrosion mechanism in a positive way.



Surface finish

Thickness ranges	
MA	0.40 - 1.98
MB	0.40 - 1.98

Chemical composition¹⁾

(in percent by weight)

0.2
0.2
0.60
1.7
0.10
0.045

1) Heat analysis

Mechanical properties (transverse)

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Yield strength	R _e ²⁾ i	n MPa
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≥250

Tensile strength R_m in MPa

 $\geq 330 (\leq 470^{3})$

Total elongation A_{80}^{4} in % ≥ 19

The samples for the tensile test are taken at right angles to rolling direction unless the product width is opposed to this.

2) $R_{eH}/R_{p0,2}$

3) Guide value

4) Thickness \geq 0.71 mm. Thickness \leq 0.70 mm minus two units.

Available dimensions

Thickness in mm	Width in mm
0.40-0.44	900 - 1,440
0.45-0.57	900 - 1,590
0.58 - 0.70	900 - 1,610
0.71 - 1.98	900 - 1,610

Thickness > 1,98 mm and \leq 4,00 mm on request

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