



Galvanized and Aluminized

Coils and cut products

Coils, generally cold rolled, are processed by the hot-dip coating lines for annealing and **metallic coating**. This one, obtained continuously by immersion in a hot zinc bath or molten aluminum-silicon alloy, guarantees **long lasting protection** making the product usable in a very wide range of applications. The composition of the molten bath of the coating, for aluminized products, varies from 8 to 11% while for hot-dip galvanized, the zinc content is at least 99%. The coating protects the steel from corrosion through a barrier and sacrificial effect (cathodic protection) which guarantees the protection of the steel support even in case of coating damage or edge trimming.

This feature, combined with a **remarkable drawability** and **formability**, typical of cold rolled products, implies that hot-dip coated coils are suitable for use in the **automotive** components, in **industrial** and **building carpentry**, in **general structural** applications, etc.

The steels used for the hot dip-coated products are, with regards to chemical composition, Low Carbon, Niobium micro alloyed or Interstitial Free.

Facilities

	Galvanized	Aluminized
Production lines (nr.):	5	1
Production sites:	Taranto, Genoa, Novi Ligure	Novi Ligure
Production capability (mt/year):	2.600.000	350.000

Dimensional ranges

	Wide strips	Narrow strips	Cut sheets
Thickness (mm)*	0,38 - 4,00	0,38 - 4,00	0,40 - 4,00
Width (mm)*	600 - 1815	15 - 599	600 - 1815
Internal diameter (mm)	508 or 610	508 or 610	-
Length (mm)	-	-	500 - 7000

* Aluminized can be supplied in the 0,50÷2,00 mm thickness range and in the 600÷1540 mm width range and only in the following grades: DX51, DX52, DX53, DX54, S220, S250, S280, S320, S350.

Main reference quality standard

Applications	Standard	Steel grades
Low carbon steels for cold forming	EN 10346	DX51D; DX52D; DX53D; DX54D; DX56D
Steels for construction	EN 10346	S220 GD; S250 GD*; S280 GD*; S320 GD*; S350 GD*
Steels with high proof strength for cold forming	EN 10346	HX260 LAD; HX300 LAD; HX340 LAD; HX380 LAD; HX420 LAD; HX220 YD; HX220 BD
Dual phase steel for cold forming	EN 10346	HCT 590X
Steels for general purposes, structural, drawing	ASTM A653	CS type A - B - C; FS type A - B; DDS type A; SS Grade 33 - 37 - 40 - 50
Antifluting	EN 10346 Internal ADI standard	DX51D CBF FE K0GZ
Automotive	Main automotive standards	

- On request, different qualities can be supplied with respect to the standards listed above or in accordance with the customer's technical specifications.

* Approval according to D.M. 17/01/2018 Italian regulation (structural steels, technical rules for buildings).

Supply conditions:

- Surface quality type A, B, C according EN 10346 or other international standards;
 - Size and dimensional tolerances according to EN 10143 or other standards or agreed specifications. Tight ADI tolerances are also available;
 - Technical documents according to EN 10204 or ISO 10474;
 - Coating mass in g/m² (total on both surfaces), from Z80 to Z600 for galvanized and from AS60 to AS150 for aluminized.
- On request, different coating mass for each surface can be supplied.