Acciaierie d'Italia

Steel Forward

Luzima (Zinc-Magnesium)

Coils and cut products

The coil intended for the **Zinc-Magnesium** product, once **cold rolled and annealed**, is sent to the hot coating lines to be **coated** with a metal alloy mainly composed of zinc as well as magnesium and aluminium.
This coating, applied continuouſly by immersion in a bath of molten metal, gives the product **special characteristics of resistance to corrosion, better formability during drawing** thanks to the lower surface friction and **greater weldability** due to the lower thickness of the coating if compared to the traditional hot dip galvanized.
The important property of zinc-magnesium to **protect surfaces** over time allows us to offer a **guarantee** of **at least up to 20 years for applications subject to high atmospheric aggression**.

The product is particularly **suitable for use in aggressive environments such as maritime areas** or areas exposed to saline contents and contexts with a high concentration of ammonia or SO_x such as in **agricultural and zootechnical installations**.
Finally, there are several possibilities for **construction**, **infrastructure and industry applications** (roofs, building structures, gutters, poles, profiles, guardrails, noise barriers, solar panels, pipes, silos, etc.).

Facilities

	Luzima (Zinc-Magnesium)
Production lines (nr.):	1
Production sites:	Novi Ligure
Production capability (mt/year):	350.000

Dimensional ranges

	Wide strips	Narrow strips	Cut sheets
Thickness (mm)	0,55 - 2,00	0,55 - 2,00	0,55 - 2,00
Width (mm)	850 - 1530	15 - 599	600 -1530
Internal diameter (mm)	508 or 610	508 or 610	-
Length (mm)	-	-	500 -7000

Reference standard

Applications	Standard	Steel grades
Low carbon steels for cold forming	EN 10346	DX51D; DX52D; DX53D
Steels for construction	EN 10346	S250 GD; S280 GD

Zinc-Magnesium alloy coating mass

Coating designation according to EN 10346	Minimum total coating mass both surface (g/m^2)
ZM100	100
ZM120	120
ZM130	130
ZM140	140
ZM150	150
ZM160	160
ZM175	175
ZM190	190
ZM200	200
ZM250	250

Please contact the sales department for further steel grades and coating not foreseen above.

Supply conditions:

- Surface quality type A, B, according EN 10346 only with minimized spangle (M);
- Size and dimensional tolerances according to EN 10143. Tight ADI tolerances are also available;
- Technical documents according to EN 10204 or ISO 10474.