

BRONX GALFAN

✓ **Galfan offers a higher level of corrosion resistance while using significantly less zinc**



➔ **Benefits of a NOF Galfan® Galvanising Line**

- ✓ Perfect for Low Coating Weight whilst achieving excellent results
- ✓ High corrosion resistance
- ✓ No added equipment to your NOF line - just changes to pot chemistry
- ✓ High savings on reduction of zinc consumed
- ✓ Lower energy consumption due to lower bath temperature
- ✓ Good ductility and excellent forming performance
- ✓ Excellent edge corrosion resistance
- ✓ Excellent paint adhesion

Each metallic coating type has its own unique physical and chemical properties which determine the performance and durability of the coating.

From a technical perspective, the most appropriate metallic coating for a given application should be selected on the basis of:

- Providing adequate corrosion resistance to meet the durability requirement of the end-user
- Having the required product attributes, such as ductility and paint adhesion, which best meet the secondary processing requirements of the coated steel.

➔ **Why Galfan®?**

In an industry striving to reduce production costs and leaning towards lower coating weights whilst maintaining quality, Galfan® is the perfect choice. It also offers enhanced paintability. Galfan® has demonstrated the ability to minimise cracking with painted products fabricated with severe bends. Galfan® offers a cost-effective product whilst maintaining exceptional levels of quality and performance.

➔ **What is Galfan®?**

Galfan® is a zinc- 5% aluminium plus Mischmetal alloy developed in 1981 and licenced under The Galfan Technology Centre. The Galfan® name is used exclusively by licencees and ensures Galfan® product quality in the market. Bronx International is the exclusive agent for the Galfan Technology Centre and would be happy to discuss licencing agreements and Galfan® uses.



✓ How Does Galfan® Coated Sheet Compare?

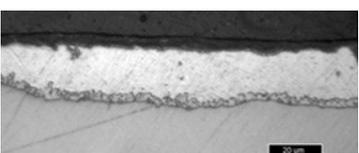
Performance Characteristics	Galfan®	Reg. Hot-Dip Galv. (Reduced Lead)	Galvalume
Corrosion Resistance (Unpainted, Flat)	4	3	5
Corrosion Resistance (Unpainted, Profiled)	5	3	3
Corrosion Resistance (Painted, Profiled)	5	4	4
Sacrificial Protection of Bare Edges & Scratches	5	5	2
Formability	5	4	3
Paint Adhesion	5	4	4
Weldability	3	3	2

Graded on a scale of 1 to 5, with 5 being the most suitable

➔ Benefits and Uses

Galfan's® unique benefits around ductility and corrosion resistance are related to its characteristic microstructure, making it suitable for a wide range of applications including: Building, Construction, Appliance, Roofing and Walling, Harsh Winter Environments and Deep Drawing.

Galfan's® microstructure is particularly suited to low coating weight applications.

Hot-Dip Galvanized Coating (GI)		Zinc overlaying a Fe ₂ Al ₅ intermetallic layer
Galfan® Coating (GF)		Zinc and aluminium lamellae with a negligible intermetallic layer FeAl ₃ 10-30 nm
Galvalume Coating (GL)		Zinc rich matrix Aluminium rich dendrites Silicon crystal Intermetallic layer AlZnFeSi

For more information on obtaining a Galfan® licence and upgrading your NOF Galvanizing Line, contact our sales office: salesgroup@thebronxgroup.com or visit our webpage: www.thebronxgroup.com Phone: +61 9534 4233

