



IRON AND STEEL

PRODUCTS

Galfan

(Mischmetal Zn-5% Al)

- **Product description:**

Galfan (mischmetal) is an alloy galvanized coating With 5% aluminum and alkaline earth metal which is applied on low and high carbon steel wire through a special process. Galfan coating improves the corrosion resistance of steel 3 times of galvanized coating (Zn-coating).

- **Advantageous:**

1. Excellent ductility
2. Very high corrosion resistance
3. Ideal surface for paint and used without cover
4. Protection against excessive heating.

Note: 5 = Best, 1=worst	Galfan	Hot-dipped Galvanized	Electro Galvanized
Formability	5	3	5
Corrosion resistance (bare)	4	3	3
Sacrificial Protection	5	5	5
Corrosion Resistance(Formed)	5	3	3
Paint Adhesion	5	4	5
Corrosion resistance(Painted)	5	4	4

- **Product Standard**

Low Carbon	High Carbon	
ASTM A856	ASTM B802	Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire
	ASTM B803	High-Strength Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire
BS EN 10244-2 Coating	ASTM B958	Extra-High-strength and Ultra-High-Strength Class A Zinc-5% Aluminum-Mischmetal Alloy-Coated Steel Core Wire

• **Technical Specifications**

1. Min. Tensile strength (MPa): Galfan Low carbon with diameters 1.00 — 6.00 mm

Wire Diameter (mm)	Soft (MPa)	Medium (MPa)	Hard (MPa)
1.00-2.00	Max .515	485-690	820-825
2.00-2.50	Max.515	485-655	585-795
2.50-4.70	Max.485	450-620	550-760
And above 4.70	Max.485	415-585	515-725

2. Galfan coating: Different Classes

ASTM A856	Class 1	Class 3 or A	Class 60	Class B	Class 100	Class C
BS EN 10244-2	Class A	Class AB	Class B	Class E	-	-

1. Min. Tensile strength (MPa): Galfan High carbon with diameters 1.27 — 4.82 mm

Diameter (mm)	ASTM B802		ASTM B803	ASTM B958	
	Class A	Class C		Extra-high	Ultra-high
1.27-2.28	1450	1310	1620	1825	1965
2.29-3.04	1410	1280	1590	1790	1900
3.05-3.55	1410	1280	1550	1760	1860
3.56-4.82	1380	1240	1520	1725	1825

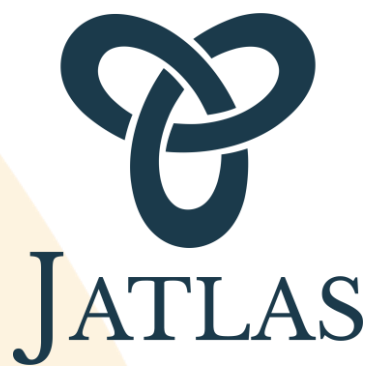
2. Min. Stress at 1% extension (MPa):

Diameter (mm)	ASTM B802		ASTM B803	ASTM B958	
	Class A	Class C		Extra-high	Ultra-high
1.27-2.28	1310	1170	1450	1550	1580
2.29-3.04	1280	1140	1410	1515	1550
3.05-3.55	1240	1100	1380	1480	1515
3.56-4.82	1170	1070	1340	1450	1480

3. Min. elongation

Diameter (mm)	ASTM B802		ASTM B803	ASTM B958	
	Class A	Class C		Extra-high	Ultra-high
1.27-2.28	3.0	3.0	3.0	3.0	3.0
2.29-3.04	3.5	3.0	3.0	3.0	3.0
3.05-3.55	4.0	3.0	3.5	3.5	3.5
3.56-4.82	4.0	4.0	3.5	3.0	3.5





IRON AND STEEL

PRODUCTS