

Chromate-free Coated Hot-dip Galvanized Steel Sheet = JC =

Optimum chromate-free coating for hot-dip zinc-coated steel sheets

Eco Frontier™ Series

JFE Steel Corporation
<https://www.jfe-steel.co.jp/en/products/sheets>



Characteristics

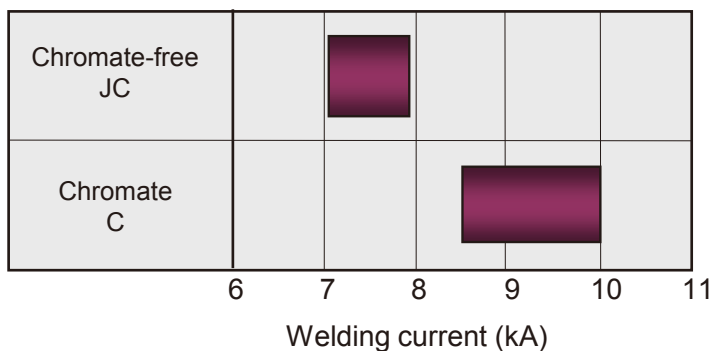
1. Excellent corrosion resistance → No corrosion after 72 hrs. SST tested by a flat panel
2. Good spot weldability → Same electrode life as conventional chromate coating *
3. Chromate-free coating → Environmentally-friendly chromate-free coated steel

Corrosion resistance (Salt spray test)

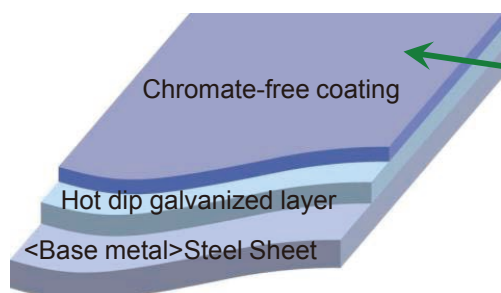
	Chromate-free = JC =	Chromate = C =
After 72 hrs. SST tested by a flat panel		
After 48 hrs. SST at bent portion (3mmR bending)		

Weldability (Suitable current range)

* Optimum current is different from conventional chromate coat. Current adjustment is required for JC coat.



Structure of coating



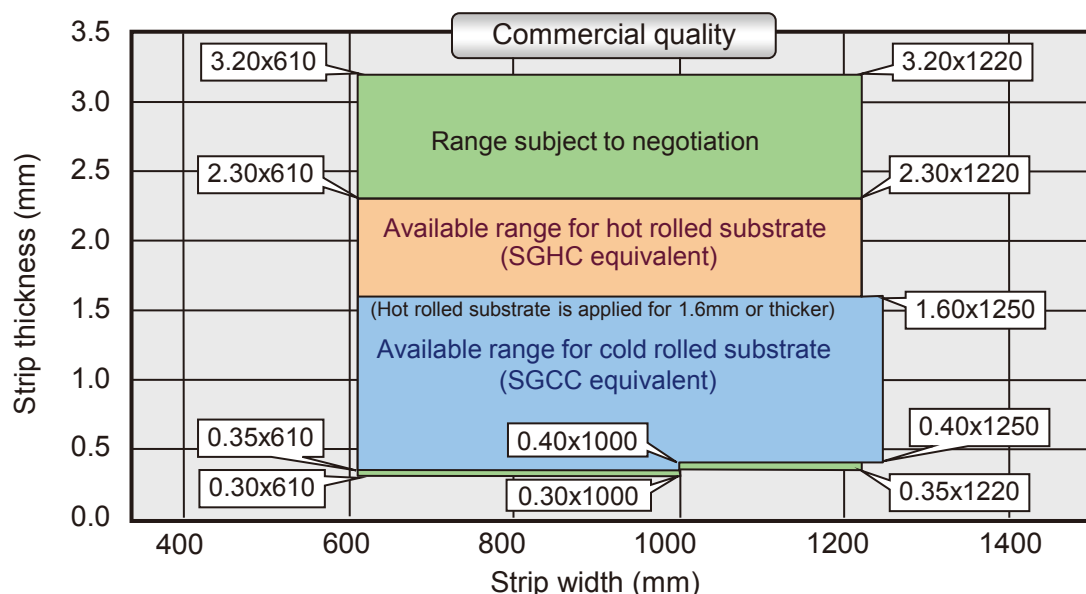
Chromate-free coating with excellent corrosion resistance and superior weldability ¹⁾

- 1) Surface resistance of JC is higher than that of conventional chromate coat. Please confirm the conductivity of JC.

Applications

- 1) Chassis for electrical appliances, etc.
- 2) Small parts for general applications

Available product size range of “JC”, commercial quality



Remarks; More information is available on other quality.

Steel grade

SGCC-NC-Z08 JC

(A) (B) (C) (E) (F) (G)

JFE-CC-GZ-JC-60/60

(A) (B) (C) (D) (E) (F)

- (A) Standards: SG=JIS hot dip zinc-coated steel sheets standard, JFE=JFE Standard
- (B) Base metal used: C=Cold rolled steel sheets, H=Hot rolled steel sheets
- (C) Classification: (JIS Standard) C=Commercial quality, D1=Drawing quality, class 1, D2=Drawing quality, class 2, D3=Drawing quality, class 3
(JFE Standard) B=Commercial quality, C=Forming quality, D=Drawing quality, E=Deep drawing quality
- (D) Zn coating: GZ=JFE GALVAZINC=JFE hot-dip zinc-coated steel sheets
- (E) Type of chromate-free chemical treatment (1): JIS Standard=NC, JFE Standard=JC
- (F) Zinc coating weight: JIS Standard=Z08, JFE Standard=60/60 (Top side/Bottom side)
- (G) Type of chromate-free chemical treatment (2): JFE Standard equivalent to JIS Standard NC=JC

Remarks on product use

- 1) Coated layer might be removed or discolored during degreasing or cleaning in some case. Please confirm it before use.
- 2) In case of severe bending or deep drawing, there is possibility of whitening or peeling of coated layer. Please confirm it before use.
- 3) High temperature heating like brazing causes the damage of coating. Please handle at room temperature.

Contact

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