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"95-5" THE NEW STANDARD IN GALVANIZING

# The Brand You Can Trust



# APO GALFAN®



## SHEETS & COILS



Manufactured by:



# PUYAT STEEL CORPORATION

The Country's Pioneer World-Class Galvanizing Company

Puyat Steel Plant, EDSA, Mandaluyong City

Trunkline: 669-2000 Loc: 2060/2061/2062 \* Telefax: 636-5307 \* Customer Care Hotline: 669-2005/2006  
or visit us at [www.puyatsteel.com](http://www.puyatsteel.com)





# APO Galfan - Galvanizing Fantastic

Only APO Galfan has effectively combined zinc and aluminum into a eutectic ratio which provides the following advantages:

## SUPERIOR CORROSION RESISTANCE

APO Galfan's unique corrosion mechanism gives pre-painted APO Galfan better corrosion resistance for longer life, less blistering damage, less edge creep and better "smear" protection at cut or punched edges.

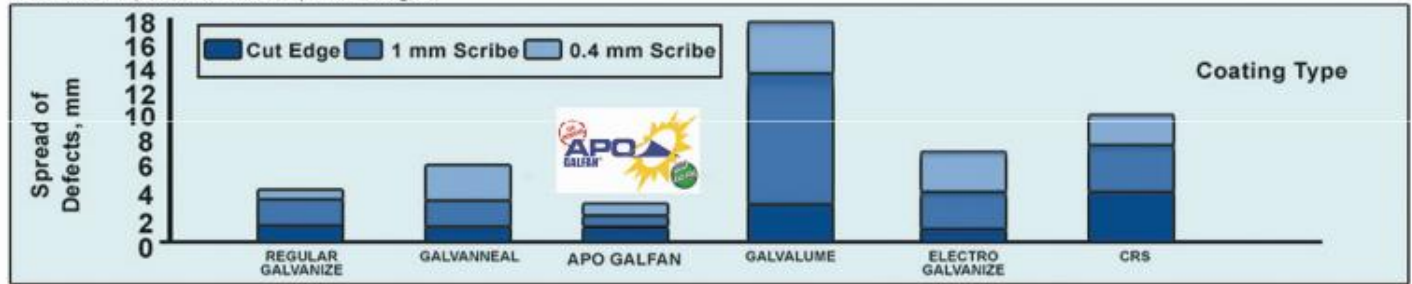


Figure 1 - Spread of defects after 2 years in marine exposure.

\* Based on long term outdoor exposure tests conducted by New Zealand Steel in 1981.



Figure 2 - Spread of defects after 2 years in industrial exposure.

\* Based on long term outdoor exposure tests conducted by New Zealand Steel in 1981.

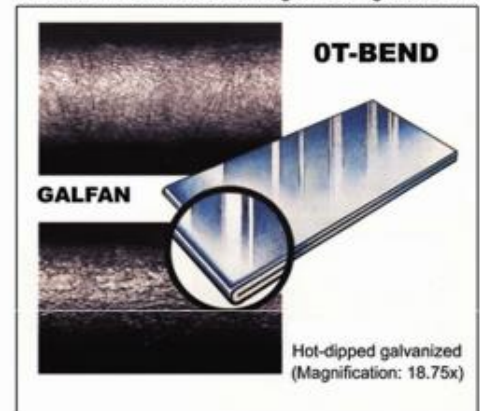
## SUPERIOR FORMABILITY

APO Galfan's greater formability is well known. It allows pre-painted APO Galfan to be severely profiled, drawn or stretched without compromising corrosion resistance because it will not crack in the high-stress areas. APO Galfan is more formable than many of the paint systems in use. APO Galfan is more formable than the steel substrate. It is not the weak link in the system as are other galvanized coatings. Pre-painted APO Galfan can be used to make products from steel that were not practical before.

APO Galfan shows no cracking or flaking at 0T-Bend.

180 DEGREE BEND TEST RESULTS				
Coating Thickness, Microns	Regular Hot-Dip Galvanize	Lead-Free Hot-Dip Galvanize	APO GALFAN Improved Galvanizing	Galvalume
7	2.5T	2T	0T	1.5T
10	5T	2T	0T	2T
19	>5T	n.a.	3T	>5T

Bending tests with APO Galfan, HDG and Galvalume confirmed the results of CRM's Report 20 on cracking behavior. Our tests were carried out according to the ECCA Test Method No. 17. We used bending radii between 0T and 5T. Samples were examined with a x10 magnifier. Parallel cracks were observed in the HDG grains whereas the APO Galfan cracks, if any, developed along the bending edge across grain boundaries. The Galvalume coating showed fewer but longer cracks. The figure shows our test results. Thickness of the coating was found to have the most important influence on cracking behavior. The thinner the coating, the fewer the cracks were visible and the better the bending behavior becomes. When comparing coatings of the same thickness, APO Galfan turns out better than Galvalume or HDG. It also shows the improved performance of lead-free zinc coatings. - Taken from a paper by Hoesch Stahl AG Galfan Licensee Meeting, August 1989



## SUPERIOR PAINTABILITY

APO Galfan is easily painted. First, it is readily passivated with a simple and conventional chromate or phosphate pretreatment. Tests have shown that APO Galfan's patented alloy composition is more readily converted than other zinc/aluminum alloys. Because APO Galfan remains passivated longer, the bond between the APO Galfan and the primer remains stable longer. The passivated APO Galfan surface will bond with many kinds of primers. Generally, any primer that will perform well with regular galvanized will perform better with APO Galfan. Similarly there are many different kinds of top-coats. It should be noted again that the APO Galfan pretreatment, primer and top-coat form a system, and each of the components must be based on its performance with the other components in the system.

Manufactured by:

## PUYAT STEEL CORPORATION

For more information, please call or see us at:

Head Office : 2/F Alegria Alta Bldg., 2294 Don Chino Roces Extn., Magallanes, Makati City, 1231 \* Trunkline: 669-2000 Loc. 2076 to 2089  
Telefax: 887-6209 \* Customer Care Hotline: 669-2005/2006

Tarlac Regional Office: 2/F Unit 8B Intellect Bldg., McArthur Highway, San Sebastian, Tarlac City \* Tel.:(045)982-2880 / Telefax:(045)491-3576

Satellite Offices: \*G/F Real Bldg., 181 National Highway, Brgy. Lingsat San Fernando City, La Union \* Telefax: (072)607-5496 / (072)888-5335

\*Mars Grains Bldg., National Highway, Sinasayon, Santiago City, Isabela \* Tel.: (078)682-0960

\*Puyat Steel Rollforming Plant, McArthur Highway, Zone 6, Brgy. Nancayasan, Urdaneta City, Pangasinan

Cebu Regional Office: Puyat Steel Plant, Whse. 1-4, F.F. Cruz Ouano Ave., North Reclamation Area, Brgy. Subangdaku, Mandaue City, Cebu \* Trunkline: (032)343-7081 \* Telefax: (032)343-7082

Satellite Offices: \*M. Torralba St., (exit GCGMH Hospital), Tagbilaran City, Bohol \* Tel.:(038)235-5734 / (038)411-5166

\*Cor. J. Navarro & Lopez Jaena St., Ormoc City, Northern Leyte \* Tel.:(053)561-4567

\*2GO Warehouse, J.Pacana St., Puntod, Cagayan de Oro City \* Telefax: Sales Office:(088)856-3143

\*Davao Rollforming Plant, Bago Aplaya, Talomo District, Davao City \* Tel.:(082)285-3839 / Telefax:(082)285-0146

For inquiries, please contact:

visit us at [www.puyatsteel.com](http://www.puyatsteel.com)

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