© Electro Galvanized Steel Coil(EGI)



Electric galvanized steel is pure-Zn, Zn-Fe, Zn-Ni boast

excellent paintability, corrosion resistance, weldability, and workability. Electro galvanized sheets are used in various applications, including

automobiles and home appliances. They are also excellent for making metal furniture.

To enhance the quality and versatility of its electro galvanized steel, POSCO engages in constant R&D efforts to develop high end materials

• Specification

Use		Standard				Tensile strength	(Elongation%)
		POSCO	KS	JIS	ASTM	(KGF/ mm)	
For general use (hard-machining)		EGSC	SECC	SECC	A591-CQ	28	32-37
For processing		EGSD	SECD	SECD	A591-DQ	28	36-41
For trepanning		EGSP	SECE	SECE	A591-DQSK	28	36-41
For non aging trepanning		EGSE	SECEN	SECEN	_	28	36-43
For extra deep drawing		EGSE	_	_	_	28	44-50
Structural purpose		EG30-58	_	_	_	30-58	26-20
High-tension steel	General use	EGCHSP 45C,50C,60C	-	_	_	45-60	29-17
	Processing	EGCHSP 35R,40R,45R	_	_	_	35-45	39-27
	Trepanning	EGCHSP 38E,38E	_	_	_	35-40	37-31

Product Features

Workability	- Compared with GI and GA, this has less coating weight and has no heat influence during manufacturing process. In this light, it maintains the material characteristics
	and workability of cold rolled sheet which is the base material
Printability	- Smooth and even surface guarantees good paintability. In addition, phosphate
	treatment improves paint adhesiveness and corrosion resistance.
	- Sacrificial anoid reaction of Zn's galvanic action protects the base metal (Zn
Corrosion	Zn+2+2e-,
Corrosion	2H,+,+2e- →H2). A thin carbonic acid zinc film is formed on the surface which acts
	as a buffer to corrosion when exposed to air
	- Pure Zn galvanized sheet has a wide contact area when pressure is applied and
Weldability	electricity conductivity is lower than cold rolled sheets thus weldability is inferior to
vveldability	others. However, good spot welding and seam welding are possible with appropriate
	welding conditions and post -treatment processes

Product Use

Division	Products				
Home appliances	LCD, PDP, PC Case, air conditioner, microwave, washer, refrigerator, gas stove, gimchi refrigerator, VCR, DVD, DVR, satellite transmitter (set-top box), motor, vending machine, water purifier, boiler, air purifier, range hood, hot-air blower, show case, home entertainment, power case, sound system, automatic teller machine				
Building material	Fence, soundproof wall, fire door, office furniture, partition				
Automobile	Filter, system, car DECK, speaker, various brackets				
Etc	Fabricated metal, PCM, PCM material				