

EDS

Engineering,
GM DAEWOO Auto & Technology.
Standards

ZINC-COATED LOW CARBON STEEL WIRES

EDS-M-1509

ISSUED DATE: 2001. 03. 27

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VERSION: 2

1. SCOPE

This standard specifies the zinc-coated low carbon steel wires used by GM DAEWOO Auto & Technology Company (hereinafter referred to as the "GMDAT").

2. Manufacturing method

2.1. Zinc coated steel wire (S) is produced by melt zinc coating or electric zinc coating the cold processed and annealed material (EDS-M-1504 : soft steel wire rod). For wire diameter of under 0.7mm of SWMGS-1, SWMGS-2, it can be manufactured by extending the wire after coating.

2.2. Zinc coated steel wire (H) is produced by melt zinc coating or electric zinc coating the cold processed material (EDS-M-1504 : soft steel wire rod). However, if required, annealing during cold processing is acceptable. Also, if required by the purchaser, the wire can be re-extended.

3. TYPE AND USE (REFERENCE)

The wires are divided into zinc coated steel wire (S) and zinc coated steel wire (H). Then, divided into type 1~7 and type 1~4 respectively according to zinc attached quantity.

Type and Use of zinc-coated low carbon steel wires

Unit :mm

Type		symbol	Standard diameter(mm)	Use	Applications
zinc coated steel wire (S)	Type 1	SWMGS-1	$0.10 \leq \phi \leq 8.00$	Soft steel wire and Machine parts	ROD-LOCKING, DR ROD-KEY CYLINDER Etc.
	Type 2	SWMGS-2	$0.10 \leq \phi \leq 8.00$		
	Type 3	SWMGS-3	$0.90 \leq \phi \leq 8.00$		
	Type 4	SWMGS-4	$0.90 \leq \phi \leq 8.00$		
	Type 5	SWMGS-5	$1.60 \leq \phi \leq 8.00$		
	Type 6	SWMGS-6	$2.60 \leq \phi \leq 6.00$		
	Type 7	SWMGS-7	$2.60 \leq \phi \leq 6.00$		
zinc coated steel wire (H)	Type 1	SWMGH-1	$0.10 \leq \phi \leq 6.00$		
	Type 2	SWMGH-2	$0.10 \leq \phi \leq 6.00$		
	Type 3	SWMGH-3	$0.90 \leq \phi \leq 8.00$		
	Type 4	SWMGH-4	$0.90 \leq \phi \leq 8.00$		

4. QUALITY

4.1. Chemical composition

Chemical composition complies with EDS-M-1504.

4.2. Mechanical properties

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The mechanical characteristic follows below. However, it doesn't specify the mechanical characteristic of extended wire after coating.

4.2.1. Tensile strength and elongation

Tensile strength and elongation shall be tested according to clause 6.2 and 6.3 and shall comply with table 2.

Table 2. Tensile strength

Unit : N/mm²

Stand ard diamet er(mm)	Tensile strength (N/mm ²)						elongation(%)						
	SWMGS-1 SWMGS-2	SWMGS-3 SWMGS-4	SWMGS-5	SWMGS-6 SWMGS-7	SWMGH-1 SWMGH-2	SWMGH-3 SWMGH-4	Target distance (mm)	SWMGS-3 SWMGS-4	SWMGS-5	SWMGS-6 SWMGS-7			
0.10 ≤ Φ < 0.90	-				-								
0.90													
0.90													
1.00													
1.20													
1.40													
1.60	290~540	290~540	290~540	290~540	590~880	590~880	100						
1.80													
2.00													
2.30					540~830	540~830	10 min.	10 min.	10 min.				
2.60													
2.90													
3.20					490~780	490~780	200	10 min.	10 min.				
3.50													
4.00													
4.50					390~780	390~780							
5.00													
5.50													
6.00													
6.50													
7.00													
7.50													
8.00													

Remarks 1. Middle diameter shall follow the bigger diameter.

2. Mechanical characteristic shall not be applied to – on table 2. Also, there are no products in / and is not specifiable.