

6.2.1 Electroplated zinc, zinc alloy and zinc flake coatings

Table 1: Characteristics

BMW Department code	Appearance	Temperature resistance	Layer thickness	NSS ¹⁾ acc. to DIN EN ISO 9227	Coating or remark
		max. °C	min. µm		
Body					
A5 ²⁾	silver	-	5 max. 10	48	DIN EN ISO 4042 – Zn5
ZNNI SI ³⁾	silver	-	6	720	DIN EN ISO 4042 – ZnNi/Cn/T0
ZNS2 ³⁾	silver	-	8	480	-
ZNT	silver	-	5	240	DIN EN ISO 4042 - Zn/Cn/T2 VDA 235-104 - OfI 20
Passenger compartment, luggage compartment					
ZNT ^{4) 5)}	silver	90	5	240	DIN EN ISO 4042 - Zn/Cn/T2 VDA 235-104 - OfI 20
ZNFE SW ^{3) 5) 6)}	black	120	5	120 ^{7) 8)} 480 ⁸⁾	DIN EN ISO 4042 – ZnFe/Fn/T0
ZNFE SI ^{3) 5) 6)}	silver	120	5	480 ⁸⁾	DIN EN ISO 4042 – ZnFe/Cn//T0
Vehicle exterior, underside, engine compartment					
ZNNI SI ³⁾	silver	180	6	720	DIN EN ISO 4042 – ZnNi/Cn/T0
ZNNIV SI ⁶⁾	silver	180	6	720 ⁸⁾	DIN EN ISO 4042 – ZnNi/Cn/T2
ZNNIV SW ⁶⁾	black	180	6	240 ^{7) 8)} 720 ⁸⁾	DIN EN ISO 4042 – ZnNi/Fn/T2
ZNS3 ⁹⁾	silver	180 ¹⁰⁾	8	720	DIN EN ISO 10683 - flZn-720 VDA 235-104 - OfI 42
ZNNID SW ³⁾	black	130	6 + 6	720 ^{7) 11)}	electroplating ZnNi + organic top coat
ZNNID SI ³⁾	silver	130	6 + 6	720 ^{7) 11)}	electroplating ZnNi + organic top coat

- 1) Base metal corrosion (red rust) is not permitted.
- 2) Permitted only for parts subjected to resistance welding.
- 3) Not suitable for threaded parts in the respective scope of application. Exceptions are subject to agreement with module manager for fasteners.
- 4) Seam sealing with system-related layer thickness between 0,5 µm and 2,0 µm is permitted and shall be indicated in the initial sample inspection report.
- 5) For use in directly visible area only by agreement with the specialist department "Corrosion Resistance".
- 6) Plus sealing with system-related layer thickness between 0,5 µm and 2,0 µm.
- 7) Zinc corrosion (white rust) is not permitted.
- 8) Test after heat treatment of 24 h at 120 °C.
- 9) For parts with thread > M6.
- 10) In case of application temperatures higher than 130 °C the parts shall be subjected to 96 h at 180 °C.
- 11) In agreement with specialist department corrosion resistance, different test 10 cycles AA-0224.