

MILD STEEL Cold Rolled Sheet HOT DIPPED GALVANIZED

THIS MATERIAL SPECIFICATION CAN ONLY BE USED WHEN THE FINAL PART IS GOING TO HAVE A PAINTED FINISH APPLIED 100% OVER FINISHED PART

Weymouth Reference ID:											
DSM 1.1.15											
Material Name EN:											
BS EN 10346											
Material Group:											
Metals, Ferrous											
Definition:											
Hot dipped galvanized steel sheet and strip are produced using an integrated continuous process, during manufacture at the steel mill. This anneals and coats both sides of a cold rolled sheet metal strip with a thin layer of zinc by dipping in a molten zinc bath. Process equipment controls the coating mass, surface finish & flatness.											
Characteristics:											
Zinc offers more corrosion resistance than steel, and more protection than any other substance such as paint or powder-coating. Low-cost combined with ease of application, make zinc an ideal substance for metal protection and galvanization. Galvanised coatings are thicker than electroplate coatings.											
ASMPT Applications											
For light weight, corrosion resistance, sheet metal fabrications. Better suited for a more demanding environment & higher strength applications.											
Note:											
- Toxic gases are released during welding. Respirators/Ventilation systems must be used. - Punched holes & cut edges will create uncoated areas. Therefore, final parts must have a full painted finish.											
Chemical Composition:											
Fe (%) – Min	Fe (%) – Max	C (%) – Min	C (%) – Max	Mn (%) – Min	Mn (%) – Max	P (%) – Min	P (%) – Max	S (%) – Min	S (%) – Max	Ti (%) – Max	Si (%) – Max
97	99	0.00	0.18	0.00	1.20	0.00	0.12	0.0	0.05	0.3	0.5
Properties:											
Density (g/cm3)	Young's modulus (GPA)		Yield Stress YS Min MPa		Tensile Strength TS Min MPA		Elongation A (%)				
7.8	210		140		270		15				
Material Safety Data Sheet:											
  Material Safety Data Sheet For Carb											

Issue	01	02	03	04	05	06	07
Date	25/04/2023						

Approved Standards:				
Material Number	Country	Product	Standard's Name	Edition
1.0917	UK	DX51D+Z275	BS EN 10346	2015
	Germany	ST02Z		
	US	CS		
	Japan	JIS G 3313 SGCC		