



DX52D+Z (CR1*)

Mild, galvanised steel grades for cold forming

Material no.	1.0918
according to	DIN EN 10346/ DIN EN 10143 * VDA 239-100

Surface finish

Thickness ranges

NA	0.40 – 4.00
MA	0.40 – 4.00
MB	0.40 – 4.00
MC ¹⁾	0.50 – 2.00

1) By agreement

Chemical composition²⁾

(in percent by weight according to DIN EN)

	min. in %	max. in %
C		0.12
Si		0.50
Mn		0.60
P		0.10
S		0.045
Ti		0.30

(in percent by weight according to VDA)

	min. in %	max. in %
C		0.10
Si		0.50
Mn		0.50
P		0.025
S		0.020
Ti		0.30
Al	0.10	
Cu		0.20

2) Heat analysis

Mechanical properties³⁾

Yield strength $R_e^{(4)}$ in MPa

DIN EN	140 – 300 ⁵⁾
VDA	140 – 300

Tensile strength R_m in MPa

DIN EN	270 – 420
VDA	270 – 410

Total elongation $A_{80}^{(6)}$ in %

DIN EN	≥ 26
VDA	≥ 28

3) Test direction is according to DIN EN and according to VDA in transverse rolling direction.

4) $R_{eL}/R_{p0.2}$

5) for MB, MC

6) Thickness ≥ 0.7mm. Thickness 0.50mm < t ≤ 0.70mm: minus two units. Thickness ≤ 0.50mm: minus four units.

Available dimensions

Thickness in mm	Width in mm
0.40 – 0.44	900 – 1,440
0.45 – 0.57	900 – 1,590
0.58 – 0.70	900 – 1,750
0.71 – 2.50	900 – 1,860
2.51 – 3.00	900 – 1,650
3.01 – 4.00	900 – 1,600

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