



## HR660Y760T-CP-GI

Multi-phase steel: Bainitic grade

Material number	-
according to	Materialinformationsblatt (MIB) VDA 239-100
Tensile strength class	D

### General informations

The steel grade HR660Y760T-CP is characterized by a very high yield strength and tensile strength of more than 800 MPa with sufficiently high elongation for cold forming processes.

In addition to the conventional hot strip design, hot strip grade HR660Y760T-CP can also be produced with the surface coatings ZM (StronSal®), GI (hot-dip galvanized) and EG (electrolytically galvanized).

Due to the chemical composition of the carrier material and the coatings, good weldability is ensured.

The characteristic values correspond to a HR660Y760T-CP with the exception of the BH<sub>2</sub> value.

The hole expansion value of min. 40% and min. 50% is guaranteed for the order grades HR660Y760T-CP-GI x<sub>pand</sub>®40 and HR660Y760T-CP-GI x<sub>pand</sub>®50.

### Chemical composition<sup>1)</sup>

(in percent by weight)

	min. in %	max. in %
C		0.18
Si		1.00
Mn		2.20
P		0.050
S		0.010
Al	0.015	1.20
B		0.005
Cu		0.20
Ti + Nb		0.25
Cr + Mo		1.00

1) Heat analysis

### Mechanical properties<sup>2)</sup>

Yield strength R <sub>p0.2</sub> in MPa
660 – 820
Tensile strength R <sub>m</sub> in MPa
760 – 960
Total elongation A <sub>80</sub> in %
≥ 10
BH <sub>2</sub> value
≥ 30

2) The mechanical properties are specified in accordance to VDA 239-100 in longitudinal test direction.

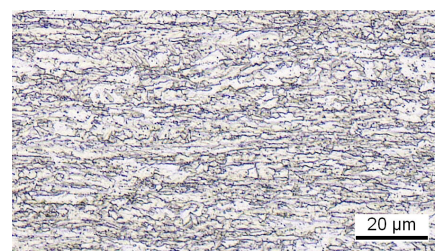
### Available dimensions

Thickness in mm	Width in mm
2.00 – 3.00	900 – 1,300

Further thicknesses and widths available on request.

### Microstructure

The microstructure of HR660Y760T-CP-GI typically consists of bainite. It may contain minor amounts of other phases (eg martensite, ferrite).





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### Application examples

HR660Y760T-CP-GI material is used in both the body and the chassis.

In the vehicle body, the material is mainly used for safety-relevant components such as reinforcements and support structures.

Due to its high fatigue strength, HR660Y760T-CP-GI is particularly well suited for use in chassis parts subject to high dynamic stress. At the same time, these parts benefit from the weight-saving potential due to the high strength of the material.

Typical application examples here are control arms and trailing arms as well as handlebars.



Control arm in automotive engineering



Above: Handlebars

Below: transverse control arm



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