

TVH® TV25 (GG25)

Density 7,15 g/cm³

Perlitic Cast iron with lamellar graphite

Specifications:

TRAID	TVH®	TV25
D	DIN 1691	GG-25
F	NF	Ft 25 D
GB	BS	Grade 220 / 260
USA	ASTM	35 B/ 40 B

Nominal composition:

C	2,9 – 3,1 %
Si	1,8 – 2,1 %
Mn	0,8 – 1,1 %
Fe	Rest

NOMINAL PROPERTIES	UNIT	CONTINUOUS CAST
Tensile strength Rm	MPa	250 – 350
Yield point R _{p0,1}	MPa	165 – 228
Breaking elongation A	%	0,8 – 0,3
Compressive strength δdβ	MPa	840
Bending strength δbβ	MPa	340
Shear strength δaβ	MPa	290
Torsional strength τtβ	MPa	290
Modulus of elasticity E	kN/mm ²	103 – 118
Poisson's ratio ν		0,26
Reversed bending strength δbβ	MPa	120
Alternating tensile-comp. strength	MPa	60
Fracture toughness K _{IC}	N/mm ^{3/2}	480
Thermal conductivity	W/(K.m)	47

MAIN CHARACTERISTICS

Machinability:	very good.
Wear resistance:	very good.
Inductive or flame-hardening capacity:	good.
Nitride hardening capacity:	good.
Quenching:	very good.
Weldability:	partially weldable with special electrodes.

INDUSTRY APPLICATIONS

Compressors.
 Cylinders.
 Pistons.
 Pumps.

Notice: The information given was made with our knowledge indicating our product's possible applications. Existing commercial patents must be observed. These values represent averages taken from samples, so we reserve the right of technical alterations. We cannot give a legally binding guarantee of certain properties or the suitability for a specific application. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.traidvillarroya.com. Traidamid, TKG and TVH as well as their logos are registered trademarks of the Traid Villarroja group of companies, in Europe and other countries.