

# STATO 75

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## Oil tempered SiCrV-alloyed spring wire

STATO 75 is especially intended for the manufacture of springs exposed to static or moderately high fatigue stresses. The material has good relaxation properties.

The wire is manufactured in sizes from  $\varnothing$  2.00 mm to 7.00 mm. Other wire sizes on request.

## CHEMISCHE ZUSAMMENSETZUNG

C (%)	Si (%)	Mn (%)	P max. (%)	S max. (%)	Cr (%)	V (%)
0,50 - 0,70	1,20 - 1,65	0,50 - 0,80	0,025	0,025	0,50 - 1,00	0,05 - 0,20

## MECHANISCHE EIGENSCHAFTEN

### FÜR RUNDRAHT

Durchmesser (mm)	Toleranz (mm)	Zugfestigkeit (N/mm <sup>2</sup> )	Brucheinschnürung (min. %)
2,00 - 2,50	$\pm 0,020$	2110 - 2210	45
2,51 - 3,20	$\pm 0,020$	2060 - 2160	45
3,21 - 4,00	$\pm 0,025$	2010 - 2110	45
4,01 - 5,00	$\pm 0,025$	1960 - 2060	45
5,01 - 5,60	$\pm 0,030$	1910 - 2010	40
5,61 - 6,50	$\pm 0,035$	1910 - 2010	40
6,51 - 7,00	$\pm 0,035$	1860 - 2010	40

## STRECKGRENZE

The proof stress  $R_{p0.2}$  is min. 0.9 x tensile strength of the wire.

## OBERFLÄCHENBESCHAFFENHEITEN

### OBERFLÄCHENBESCHAFFENHEIT

#### Surface condition – end sample test

The wire is end sample tested by means of etch testing and binocular inspection as well as microscopical inspection of the material structure.

Max. permissible depth of partial surface decarburization and surface defects, 1.5% x wire diameter. No complete decarburization allowed.

For further technical support, please contact Suzuki Garphyttan or visit [www.suzuki-garphyttan.com](http://www.suzuki-garphyttan.com) for more information

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## PHYSIKALISCHE EIGENSCHAFTEN

### E UND G ELASTIZITÄTSMODUL

About 206 kN/mm<sup>2</sup>

### E UND G SCHUBMODUL

About 79.5 kN/mm<sup>2</sup>

## STANDARDS

### NÄCHSTÄHNLICHE VERGLEICHBARE STAHLGÜTEN

EN FDSiCrV

### NÄCHSTÄHNLICHE VERGLEICHBARE NORMEN

EN 10270-2

## EMPFEHLUNGEN

### WÄRMEBEHANDLUNG

As soon as possible after coiling, the springs should be stress relieved.

### WARMVORSETZEN

After shot peening, the springs should be hot preset or stress relieved. In order to reach optimum fatigue and relaxation properties, the springs must be preset at an appropriate stress

### KUGELSTRAHLEN

In order to obtain optimum fatigue properties, the process time should be adjusted to get a complete treatment. Size of shots should be adapted to wire dimension, pitch and shot peening equipment. Shot peening of the inside of the spring coils is particularly critical.