

# STAINLESS STEEL FIBRES

IMATTEC International  
278, Ch. F. Forest BP 90440 - 59203 Tourcoing Cedex FRANCE  
phone : + 33 (0) 320 234 044 - fax : + 33 (0) 320 234 067  
email : contact@imattec.com - website : www.imattec.com

## ➤ Technical data sheet

Type : AISI 316L

**High density** : For the same metric count, it is thinner than a wool or cotton yarn.

**Nm15/2 AISI 316L = Nm90/2 wool**

A twisted yarn offers a better stability than a single yarn

### PROPERTIES

|                             |   |
|-----------------------------|---|
| Tenacity :                  | 17 – 18 cN/Tex  |
| Elongation :                | 1 %   |
| Density :                   | 7,9 g/cm <sup>3</sup>   |
| Electrical resistivity :    | 74 .10 <sup>-6</sup> /Ω.m (20°C) , 108. 10 <sup>-6</sup> /Ω.m (600°C)                           |
| Thermal conductivity :      | 14,6-15 W.m <sup>-1</sup> .K <sup>-1</sup> (20°C)   |
| Mass specific heat :        | 500 J.Kg <sup>-1</sup> .K <sup>-1</sup> (20°C), 545 J.Kg <sup>-1</sup> .K <sup>-1</sup> (600°C) |
| Melting-point temperature : | 1380°C  |
| Coefficient of dilation :   | 16.0 (100°C), 18.5 (20°C to 800°C)  |

### OUR POSSIBILITIES (specific development on request)

|                                   |   |
|-----------------------------------|---|
| Standard range of fibre section : | 8, 12, 15.5, 22µm   |
| Standard range of yarn size :     | Nm15/2 (8µm) to Nm0.3/2 (22µm)  |
| Twisted yarn range :              | 2 to n single yarns   |
| Blend range :                     | Aramid fibres (Twaron, Kevlar, Kermel...),<br>Water solvable fibres (Kuralon), Zylon,<br>Vectran, PTFE, wool... |
| Stainless steel filament range :  | 50, 100, 150, 200µm   |



Depending on your need, we can also use different types of stainless steel fibers (304...) as well as other metals like copper, nickel, aluminium, memory alloy filaments...

### RANGE OF PRODUCTS

- ✓ Staple fibres
- ✓ Slivers
- ✓ Yarns



### APPLICATIONS

We incorporate stainless steel fibres with a large range of other technical fibers for various applications such as:

- Electrical conductivity
- Magnetic shielding
- Heating yarn
- High temp. resistive fabric
- Thermal transfer



Large range of blends is available. Please contact us for more precision.

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