Coats Helios

Coats Helios is a high performance sewing thread made from a steel core (steel class 1.4301 or AISI 304) with 8 to 10 steel wires wrapped with a flame retardant cotton cover. Coats Helios can resist temperatures of approximately 500 - 600ºC without any mechanical strain and approximately 300ºC under mechanical strain. The cotton cover will turn brown at temperatures between 180 - 220ºC and will completely carbonise at higher temperatures.

Main Uses:
- Welding blankets and curtains
- Fire curtains
- Insulation jackets
- Thermal covers
- Heat and flame protective carpets, mats and tarpaulins
- Firefighter uniforms
- Fire separation blankets
- Flame retardant protective clothing

Why choose Helios?
- Coats Helios can resist temperatures of approximately 500 - 600ºC without any mechanical strain and approximately 300ºC under mechanical strain. The cotton cover will turn brown at temperatures between 180 - 220ºC and will completely carbonise at higher temperatures.
- Coats Helios provides good sewing performance.
- Meets Coats restricted substance list.

Technical Services
Our team of experts deliver innovative solutions globally.
Coats Helios

<table>
<thead>
<tr>
<th>Tex</th>
<th>Ticket</th>
<th>Ply</th>
<th>Strength cN</th>
<th>Elongation % Min - Max</th>
<th>Needle Size Metric</th>
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<tr>
<td>150</td>
<td>18</td>
<td>1</td>
<td>2100</td>
<td>15 - 25</td>
<td>120 - 140</td>
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<tr>
<td>210</td>
<td>13</td>
<td>1</td>
<td>2700</td>
<td>8 - 18</td>
<td>130 - 160</td>
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</tbody>
</table>

**Thermal Properties:**
- Helios can resist temperatures of approximately 500 - 600°C without any mechanical strain and approximately 300°C under mechanical strain
- The cotton cover will turn brown at temperatures between 180 - 220°C and will completely carbonise at higher temperatures

**Chemical Properties:**
- Since these data is not available from the steel supplier and it is not relevant for the application. If a customer needs information about chemical properties it needs to be analysed on a case by case basis taking into account individual conditions

**Additional Information:**
- Coats Helios sewing threads are suitable for use in heat and fire fighters’ protective clothing according to EN ISO 11612, EN ISO 14116 and EN 469. They are not suitable for use in protective clothing for electricians and welders as the relatively low vertical resistance (< 105 Ω) material cannot guarantee protection from the possibility of electrical shock by contact with live electric conductors

Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure herself or himself that the product meets end customer requirements and is suitable for the intended end use. Coats accepts no liability for unsuitable or improper use or application of products. Information provided above is based on current averages and should be taken only as indicative. Coats accepts no liability for the preciseness and correctness of the information provided.

Product information sheets are updated from time to time, please be sure you are referring to the most recent publication. Coats supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us.

www.coatsindustrial.com