

Insulation rods made of Alsint 99.7 or Pythagoras are used to insulate inserted thermal wires. In accordance with DIN 43725, Pythagoras insulation rods can be heated to temperatures up to 2732°F/1500°C. For higher temperatures, we recommend Alsint 99.7 insulation rods.

| ALSINT 99.7 TYPE C 799 |         |          |             |         |          |             |         |          | PYTHAGORAS TYPE C 610 |         |          |             |         |          |             |         |          |
|------------------------|---------|----------|-------------|---------|----------|-------------|---------|----------|-----------------------|---------|----------|-------------|---------|----------|-------------|---------|----------|
| 2-bore rods            |         |          | 4-bore rods |         |          | 2-bore rods |         |          | 4-bore rods           |         |          | 2-bore rods |         |          | 4-bore rods |         |          |
| * O Ø/B Ø              | O Ø/B Ø | O Ø/B Ø  | * O Ø/B Ø   | O Ø/B Ø | O Ø/B Ø  | * O Ø/B Ø   | O Ø/B Ø | O Ø/B Ø  | * O Ø/B Ø             | O Ø/B Ø | O Ø/B Ø  | * O Ø/B Ø   | O Ø/B Ø | O Ø/B Ø  | * O Ø/B Ø   | O Ø/B Ø | O Ø/B Ø  |
| 1.2 0.2                | 5.2 0.2 | 7.9 1.8  | 1.5 0.3     | 5.5 1.3 | 10.0 1.8 | 1.1 0.3     | 5.1 1.5 | 8.5 2.5  | 1.5 0.3               | 4.9 1.1 | 8.7 2.2  | 1.1 0.3     | 5.1 1.5 | 8.5 2.5  | 1.5 0.3     | 4.9 1.1 | 8.7 2.2  |
| 1.2 0.3                | 5.2 1.6 | 8.0 2.0  | 1.7 0.4     | 5.6 1.0 | 10.0 3.1 | 1.2 0.2     | 5.1 1.9 | 8.7 2.3  | 1.7 0.4               | 4.9 1.4 | 8.8 2.5  | 1.2 0.2     | 5.1 1.9 | 8.7 2.3  | 1.7 0.4     | 4.9 1.4 | 8.8 2.5  |
| 1.4 0.3                | 5.2 1.7 | 8.2 1.8  | 2.3 0.5     | 5.6 1.3 | 10.2 2.7 | 1.2 0.3     | 5.2 1.7 | 9.0 2.0  | 2.1 0.5               | 5.1 1.2 | 9.1 2.5  | 1.2 0.3     | 5.2 1.7 | 9.0 2.0  | 2.1 0.5     | 5.1 1.2 | 9.1 2.5  |
| 1.7 0.3                | 5.2 1.8 | 8.2 2.5  | 2.4 0.5     | 5.6 1.5 | 10.3 2.3 | 1.4 0.3     | 5.2 1.9 | 9.1 2.4  | 2.3 0.5               | 5.2 1.1 | 9.2 2.1  | 1.4 0.3     | 5.2 1.9 | 9.1 2.4  | 2.3 0.5     | 5.2 1.1 | 9.2 2.1  |
| 1.9 0.6                | 5.4 1.3 | 8.3 1.6  | 2.4 0.6     | 5.7 1.2 | 10.5 1.1 | 1.5 0.4     | 5.4 1.8 | 9.2 2.8  | 2.3 0.6               | 5.2 1.3 | 9.3 2.8  | 1.5 0.4     | 5.4 1.8 | 9.2 2.8  | 2.3 0.6     | 5.2 1.3 | 9.3 2.8  |
| 2.0 0.3                | 5.5 1.5 | 8.4 2.9  | 2.6 0.6     | 5.8 1.2 | 10.5 1.5 | 1.6 0.3     | 5.4 1.9 | 9.4 2.9  | 2.4 0.6               | 5.3 1.0 | 9.4 1.8  | 1.6 0.3     | 5.4 1.9 | 9.4 2.9  | 2.4 0.6     | 5.3 1.0 | 9.4 1.8  |
| 2.0 0.4                | 5.5 1.8 | 8.5 1.3  | 2.7 0.5     | 5.8 1.5 | 10.7 2.5 | 1.8 0.6     | 5.5 0.9 | 9.7 2.7  | 2.5 0.5               | 5.3 1.1 | 9.4 3.0  | 1.8 0.6     | 5.5 0.9 | 9.7 2.7  | 2.5 0.5     | 5.3 1.1 | 9.4 3.0  |
| 2.0 0.6                | 5.5 1.9 | 8.7 2.5  | 2.7 0.6     | 5.9 1.5 | 11.6 2.5 | 1.9 0.6     | 5.5 1.1 | 9.7 3.7  | 2.5 0.6               | 5.3 1.2 | 9.5 1.5  | 1.9 0.6     | 5.5 1.1 | 9.7 3.7  | 2.5 0.6     | 5.3 1.2 | 9.5 1.5  |
| 2.1 0.6                | 5.5 2.0 | 8.7 2.6  | 2.7 0.7     | 6.0 1.3 | 11.7 3.5 | 2.0 0.6     | 5.5 1.8 | 9.8 3.7  | 2.5 0.7               | 5.4 1.1 | 9.8 1.1  | 2.0 0.6     | 5.5 1.8 | 9.8 3.7  | 2.5 0.7     | 5.4 1.1 | 9.8 1.1  |
| 2.3 0.5                | 5.7 1.1 | 8.8 1.5  | 2.8 0.7     | 6.0 1.4 | 11.7 3.7 | 2.1 0.5     | 5.5 1.9 | 9.9 3.9  | 2.6 0.6               | 5.5 1.2 | 9.8 1.4  | 2.1 0.5     | 5.5 1.9 | 9.9 3.9  | 2.6 0.6     | 5.5 1.2 | 9.8 1.4  |
| 2.7 0.8                | 5.7 1.8 | 8.9 0.5  | 2.9 0.7     | 6.1 1.8 | 11.8 3.5 | 2.1 0.6     | 5.6 1.5 | 10.2 2.7 | 2.7 0.6               | 5.5 1.5 | 10.0 2.4 | 2.1 0.6     | 5.6 1.5 | 10.2 2.7 | 2.7 0.6     | 5.5 1.5 | 10.0 2.4 |
| 2.9 0.5                | 5.8 1.4 | 8.9 2.5  | 3.2 0.7     | 6.2 1.7 | 11.8 3.8 | 2.6 0.8     | 5.6 1.8 | 10.2 3.8 | 2.8 0.8               | 5.6 1.5 | 10.4 3.0 | 2.6 0.8     | 5.6 1.8 | 10.2 3.8 | 2.8 0.8     | 5.6 1.5 | 10.4 3.0 |
| 3.0 0.7                | 5.8 2.0 | 9.0 1.6  | 3.3 0.8     | 6.3 1.7 | 11.9 3.9 | 2.7 0.5     | 5.7 1.9 | 10.3 3.2 | 3.0 0.7               | 5.7 1.2 | 10.9 2.5 | 2.7 0.5     | 5.7 1.9 | 10.3 3.2 | 3.0 0.7     | 5.7 1.2 | 10.9 2.5 |
| 3.1 1.0                | 5.9 1.0 | 9.1 2.5  | 3.5 0.9     | 6.4 1.2 | 12.6 3.6 | 2.9 0.7     | 5.9 0.9 | 10.4 3.0 | 3.1 0.8               | 5.8 1.6 | 11.0 3.4 | 2.9 0.7     | 5.9 0.9 | 10.4 3.0 | 3.1 0.8     | 5.8 1.6 | 11.0 3.4 |
| 3.2 1.1                | 5.9 1.2 | 9.3 2.4  | 3.6 0.7     | 6.4 1.6 | 12.9 4.1 | 3.0 1.1     | 5.9 1.8 | 10.4 3.8 | 3.3 0.9               | 5.8 1.7 | 11.0 3.5 | 3.0 1.1     | 5.9 1.8 | 10.4 3.8 | 3.3 0.9     | 5.8 1.7 | 11.0 3.5 |
| 3.3 1.1                | 5.9 1.8 | 9.3 3.0  | 3.6 1.1     | 6.5 1.7 | 13.3 3.1 | 3.1 1.1     | 5.9 2.0 | 10.5 3.0 | 3.4 0.6               | 5.9 1.7 | 11.0 3.6 | 3.1 1.1     | 5.9 2.0 | 10.5 3.0 | 3.4 0.6     | 5.9 1.7 | 11.0 3.6 |
| 3.4 1.1                | 5.9 1.9 | 9.6 2.1  | 3.8 0.8     | 6.6 1.5 | 13.3 3.5 | 3.2 1.0     | 6.0 1.0 | 10.6 3.5 | 3.4 1.0               | 6.0 1.2 | 11.1 3.7 | 3.2 1.0     | 6.0 1.0 | 10.6 3.5 | 3.4 1.0     | 6.0 1.2 | 11.1 3.7 |
| 3.6 0.5                | 5.9 2.0 | 9.7 2.5  | 3.8 1.0     | 6.6 2.0 | 14.2 3.6 | 3.4 0.5     | 6.0 1.5 | 10.7 2.5 | 3.4 1.2               | 6.0 1.6 | 11.2 3.8 | 3.4 0.5     | 6.0 1.5 | 10.7 2.5 | 3.4 1.2     | 6.0 1.6 | 11.2 3.8 |
| 3.6 0.8                | 6.0 1.5 | 9.8 2.9  | 3.9 0.7     | 6.7 1.0 | 14.3 3.5 | 3.4 0.8     | 6.0 2.0 | 10.7 3.7 | 3.5 0.8               | 6.1 1.5 | 11.5 3.3 | 3.4 0.8     | 6.0 2.0 | 10.7 3.7 | 3.5 0.8     | 6.1 1.5 | 11.5 3.3 |
| 3.7 1.1                | 6.0 1.8 | 10.0 2.3 | 4.0 1.0     | 6.7 1.9 | 15.8 3.8 | 3.5 1.1     | 6.3 1.5 | 10.9 1.5 | 3.5 1.0               | 6.1 1.7 | 11.8 3.5 | 3.5 1.1     | 6.3 1.5 | 10.9 1.5 | 3.5 1.0     | 6.1 1.7 | 11.8 3.5 |
| 3.7 1.2                | 6.1 1.9 | 10.0 3.1 | 4.0 1.1     | 7.0 1.5 | 16.9 4.6 | 3.5 1.2     | 6.3 1.8 | 11.0 3.0 | 3.6 0.8               | 6.2 1.5 | 12.5 3.0 | 3.5 1.2     | 6.3 1.8 | 11.0 3.0 | 3.6 0.8     | 6.2 1.5 | 12.5 3.0 |
| 3.8 1.1                | 6.2 1.0 | 10.0 3.8 | 4.1 0.7     | 7.8 1.5 |          | 3.7 1.1     | 6.4 0.9 | 11.5 3.0 | 3.7 0.7               | 6.2 2.0 | 12.5 3.4 | 3.7 1.1     | 6.4 0.9 | 11.5 3.0 | 3.7 0.7     | 6.2 2.0 | 12.5 3.4 |
| 3.9 1.2                | 6.2 1.8 | 10.2 1.5 | 4.1 0.8     | 7.8 2.0 |          | 3.8 0.5     | 6.4 1.4 | 11.5 3.3 | 3.7 0.9               | 6.3 1.0 | 12.5 3.8 | 3.8 0.5     | 6.4 1.4 | 11.5 3.3 | 3.7 0.9     | 6.3 1.0 | 12.5 3.8 |
| 4.0 0.8                | 6.2 2.0 | 10.2 2.7 | 4.2 0.7     | 7.9 1.5 |          | 3.8 0.8     | 6.4 2.4 | 11.7 4.0 | 3.8 0.6               | 6.7 1.8 | 13.0 3.5 | 3.8 0.8     | 6.4 2.4 | 11.7 4.0 | 3.8 0.6     | 6.7 1.8 | 13.0 3.5 |
| 4.0 1.0                | 6.3 0.9 | 10.3 2.8 | 4.2 0.8     | 8.0 2.3 |          | 3.8 0.9     | 6.5 1.0 | 11.9 1.1 | 3.8 0.9               | 7.3 1.5 | 13.2 3.6 | 3.8 0.9     | 6.5 1.0 | 11.9 1.1 | 3.8 0.9     | 7.3 1.5 | 13.2 3.6 |
| 4.1 0.5                | 6.3 1.8 | 10.9 2.7 | 4.2 1.2     | 8.3 1.7 |          | 3.9 0.9     | 6.5 1.6 | 12.0 3.9 | 3.8 1.1               | 7.3 1.9 | 13.2 4.0 | 3.9 0.9     | 6.5 1.6 | 12.0 3.9 | 3.8 1.1     | 7.3 1.9 | 13.2 4.0 |
| 4.1 0.9                | 6.4 1.0 | 10.9 3.9 | 4.3 0.7     | 8.3 1.8 |          | 3.9 1.2     | 6.5 1.9 | 12.8 4.5 | 3.9 0.6               | 7.4 1.5 | 13.4 3.4 | 3.9 1.2     | 6.5 1.9 | 12.8 4.5 | 3.9 0.6     | 7.4 1.5 | 13.4 3.4 |
| 4.1 1.0                | 6.4 1.5 | 11.1 3.1 | 4.3 0.8     | 8.3 2.3 |          | 4.0 1.3     | 6.5 2.2 | 13.0 2.4 | 3.9 0.8               | 7.8 1.7 | 14.2 4.0 | 4.0 1.3     | 6.5 2.2 | 13.0 2.4 | 3.9 0.8     | 7.8 1.7 | 14.2 4.0 |
| 4.2 1.2                | 6.4 2.1 | 11.1 3.9 | 4.3 1.2     | 8.4 1.9 |          | 4.2 1.2     | 6.8 2.2 | 14.1 4.5 | 3.9 1.1               | 7.8 2.3 | 14.8 3.7 | 4.2 1.2     | 6.8 2.2 | 14.1 4.5 | 3.9 1.1     | 7.8 2.3 | 14.8 3.7 |
| 4.3 1.3                | 6.7 1.5 | 11.3 3.6 | 4.5 1.3     | 8.4 2.2 |          | 4.2 1.3     | 7.0 1.1 | 14.2 4.5 | 4.0 0.7               | 7.9 1.9 | 15.0 3.6 | 4.2 1.3     | 7.0 1.1 | 14.2 4.5 | 4.0 0.7     | 7.9 1.9 | 15.0 3.6 |
| 4.3 1.4                | 6.7 1.8 | 11.4 2.5 | 4.6 1.0     | 8.5 1.5 |          | 4.2 1.6     | 7.0 2.6 | 15.3 4.8 | 4.0 1.1               | 7.9 2.2 | 15.8 4.5 | 4.2 1.6     | 7.0 2.6 | 15.3 4.8 | 4.0 1.1     | 7.9 2.2 | 15.8 4.5 |
| 4.4 1.3                | 6.8 0.9 | 11.6 1.5 | 4.7 0.7     | 8.5 2.5 |          | 4.3 1.2     | 7.1 2.4 | 17.7 4.0 | 4.0 1.2               | 8.0 1.8 |          | 4.3 1.2     | 7.1 2.4 | 17.7 4.0 | 4.0 1.2     | 8.0 1.8 |          |
| 4.5 1.2                | 6.8 1.5 | 12.2 3.3 | 4.8 0.8     | 8.6 1.8 |          | 4.4 0.9     | 7.2 2.4 | 18.3 4.1 | 4.1 0.7               | 8.0 2.3 |          | 4.4 0.9     | 7.2 2.4 | 18.3 4.1 | 4.1 0.7     | 8.0 2.3 |          |
| 4.6 1.0                | 6.8 2.4 | 12.2 3.4 | 4.8 1.0     | 8.6 1.9 |          | 4.4 1.0     | 7.4 1.8 |          | 4.2 1.3               | 8.0 2.4 |          | 4.4 1.0     | 7.4 1.8 |          | 4.2 1.3     | 8.0 2.4 |          |
| 4.6 1.2                | 6.9 1.0 | 12.3 3.0 | 4.8 1.1     | 8.6 2.0 |          | 4.4 1.3     | 7.5 1.9 |          | 4.3 0.9               | 8.0 2.5 |          | 4.4 1.3     | 7.5 1.9 |          | 4.3 0.9     | 8.0 2.5 |          |
| 4.7 1.0                | 6.9 1.6 | 12.5 4.1 | 4.8 1.2     | 8.6 2.3 |          | 4.5 1.0     | 7.7 1.7 |          | 4.4 0.7               | 8.1 1.5 |          | 4.5 1.0     | 7.7 1.7 |          | 4.4 0.7     | 8.1 1.5 |          |
| 4.7 1.1                | 6.9 2.2 | 12.6 1.2 | 4.8 1.5     | 8.8 1.2 |          | 4.5 1.5     | 7.7 2.4 |          | 4.5 0.8               | 8.1 1.7 |          | 4.5 1.5     | 7.7 2.4 |          | 4.5 0.8     | 8.1 1.7 |          |
| 4.7 1.3                | 7.0 1.6 | 13.6 4.6 | 5.0 1.1     | 8.8 1.5 |          | 4.6 1.6     | 7.8 1.6 |          | 4.5 0.9               | 8.1 1.8 |          | 4.6 1.6     | 7.8 1.6 |          | 4.5 0.9     | 8.1 1.8 |          |
| 4.7 1.5                | 7.0 2.0 | 13.8 2.5 | 5.0 1.2     | 8.8 1.8 |          | 4.7 1.4     | 8.2 1.5 |          | 4.5 1.1               | 8.1 1.9 |          | 4.7 1.4     | 8.2 1.5 |          | 4.5 1.1     | 8.1 1.9 |          |
| 4.8 1.0                | 7.2 2.3 | 15.0 4.6 | 5.1 1.0     | 9.1 2.1 |          | 4.7 1.7     | 8.2 2.4 |          | 4.5 1.2               | 8.1 2.3 |          | 4.7 1.7     | 8.2 2.4 |          | 4.5 1.2     | 8.1 2.3 |          |
| 4.8 1.5                | 7.4 2.6 | 15.1 4.6 | 5.2 1.2     | 9.4 2.5 |          | 4.9 1.6     | 8.2 2.6 |          | 4.5 1.5               | 8.2 1.5 |          | 4.9 1.6     | 8.2 2.6 |          | 4.5 1.5     | 8.2 1.5 |          |
| 4.9 1.7                | 7.5 1.1 | 15.9 3.3 | 5.2 1.3     | 9.6 2.9 |          | 4.9 1.7     | 8.4 0.5 |          | 4.7 1.1               | 8.2 1.8 |          | 4.9 1.7     | 8.4 0.5 |          | 4.7 1.1     | 8.2 1.8 |          |
| 5.0 1.4                | 7.6 2.4 | 16.3 4.9 | 5.4 1.2     | 9.7 2.6 |          | 4.9 1.8     | 8.4 2.5 |          | 4.7 1.2               | 8.3 1.2 |          | 4.9 1.8     | 8.4 2.5 |          | 4.7 1.2     | 8.3 1.2 |          |
| 5.0 1.8                | 7.7 2.5 |          | 5.5 1.2     | 9.9 2.8 |          | 5.1 1.2     | 8.5 1.6 |          | 4.8 0.9               | 8.5 1.5 |          | 5.1 1.2     | 8.5 1.6 |          | 4.8 0.9     | 8.5 1.5 |          |

\* O Ø = Outer diameter in mm B Ø = Bore diameter in mm