**Which is the Best Insulator:**

**Air, Styrofoam, Foil, or Cotton**

**Data Chart**

Key: N = No, ice did not form

 YP = Yes, partial ice formed

 YC = Yes, ice is completely formed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time (min)** | **Styrofoam** | **Aluminum foil** | **Cotton** | **Air** |
| 15 |  |  |  |  |
| 30 |  |  |  |  |
| 45 |  |  |  |  |
| 60 |  |  |  |  |
| 75 |  |  |  |  |
| 90 |  |  |  |  |
| 105 |  |  |  |  |
| 120 |  |  |  |  |
| 135 |  |  |  |  |
| 150 |  |  |  |  |
| 165 |  |  |  |  |
| 180 |  |  |  |  |

Key: M = Fully melted

 NM = Not fully melted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time (min)** | **Styrofoam** | **Aluminum foil** | **Cotton** | **Air** |
| 15 |  |  |  |  |
| 30 |  |  |  |  |
| 45 |  |  |  |  |
| 60 |  |  |  |  |
| 75 |  |  |  |  |
| 90 |  |  |  |  |
| 105 |  |  |  |  |
| 120 |  |  |  |  |
| 135 |  |  |  |  |
| 150 |  |  |  |  |
| 165 |  |  |  |  |
| 180 |  |  |  |  |