

Nansulate PT ile Ev Maket Denevi

Two identical wooden boxes were furnished with incandescent lamps and thermocouples at the same positions inside the boxes. One box was coated with 3 coats of GP in all surfaces inside and outside. At an ambient temperature of 82.4 F, both heating elements were switched on and temperatures noted against time.

<u>Time</u>	Temp. Increase/F		Temp. Increase/F		Temperature	
	<u>Nansulate GP</u>	<u>No Insulation</u>	<u>Nansulate GP</u>	<u>No Insulation</u>	<u>Difference/F</u>	<u>% Energy Difference</u>
00:00:00	82.4	82.4	0.0	0.0	0	
00:03:00	102.4	97.3	20.0	14.9	5.1	
00:05:00	111.9	106.3	29.5	23.9	5.6	
00:10:00	132.3	124.2	49.9	41.8	8.1	19
00:16:10	145.4	135.2	63.0	52.8	10.2	19
00:19:00	151.0	139.6	68.6	57.2	11.4	20
00:20:00	153.1	141.4	70.7	59.0	11.7	20
00:22:00	156.0	143.8	73.6	61.4	12.2	20
00:24:00	158.0	146.3	75.6	63.9	11.7	18
00:26:00	160.7	147.9	78.3	65.5	12.8	20
00:28:00	163.8	150.4	81.4	68.0	13.4	20
00:33:00	168.4	153.7	86.0	71.3	14.7	21
00:35:00	169.7	154.8	87.3	72.4	14.9	21
00:38:00	171.5	156.0	89.1	73.6	15.5	21
00:40:00	172.9	157.5	90.5	75.1	15.4	21
00:41:00	173.4	158	91.0	75.6	15.4	20
00:46:00	176	160.2	93.6	77.8	15.8	20
00:49:00	177.3	161.4	94.9	79.0	15.9	20
00:52:00	178.5	162.5	96.1	80.1	16	20
00:55:00	179.6	163.2	97.2	80.8	16.4	20
00:58:00	180.5	164.3	98.1	81.9	16.2	20
01:00:00	181.4	165.2	99.0	82.8	16.2	20

Comments

1. Nansulate coated box reached 158 F in 24 minutes whereas un-insulated box reached the same temperature in 41 minutes.
2. Heating time of Nansulate coated box overall seem to have halved.