

# FIRWIN 1200

## Firwin 1200 High Temperature Glass Fiber Insulating Blanket

Firwin 1200 is a mechanically, not organically, bonded glass fiber insulating blanket of uniform density that offers reliable, superior performance at temperatures up to 1,200° F. (650°C)

Firwin 1200 meets U.L. ® requirements, ref.#R11184, all requirements of military specifications MIL-1-24244 and MIL-1-16411 (latest revisions), and all pertinent automotive specifications.

Firwin 1200 is manufactured from a well-controlled assortment of glass textile fibers to assure uniform mechanical bonding. Firwin 1200 quality is maintained through a carefully controlled needling process which creates uniform insulating efficiency during extended exposure to elevated temperatures.

Firwin 1200 is offered in standard 1/4", 1/2" and 1" grades.

### Product Characteristics

- Low thermal conductivity at temperatures to 1,200° F (650°C)
- Non-toxic
- Good drapability- conforms to irregular surfaces
- Non-combustible
- Excellent vibration resistance, will not powder.
- Odorless- will not absorb odors
- Will not contribute to metal corrosion
- Excellent sound absorption properties
- Will not decay, nor sustain

mold or vermin

- Conforms with MIL-1-16411 and MIL-1-24244
- U.L. listed: ref. #R11184 (flame) spread-0,smoke generated-0)
- Reliable, superior performance... every time

### Applications

- Removable pads
- Ship turbines
- Marine, industrial and process piping
- Muffler insulation
- Power generating equipment
- Industrial furnaces
- Automotive floor and front dash insulation
- Many other specialty applications requiring quality insulation.

## PHYSICAL PROPERTIES

Grade	Mass (oz/sqft.)	Width (inches)	Roll Length (feet)	Area (per roll) (sq.ft.)	Roll Mass (net) (lbs)
1/4"	4	60	150	750	185
1/2"	6	60	75	375	140
1"	15	60	45	225	215

The above information represents nominal values.

## THERMAL CONDUCTIVITY

According to independent testing, Firwin 1200 meets and exceeds the following "K" factor requirements for MIL-1-16411(latest revision),Type II:

Temperature	BTU in/hr/sq ft/°F
300° F	.40
500° F	.50
700° F	.65

## ACOUSTICAL RATINGS

Frequency (Hz)	Sound Absorption Coefficients (Sabins/sq.ft.)		
	1"	1/2"	1/4"
250	.29 ± .04	.07 ± .02	.04 ± .04
500	.86 ± .03	.30 ± .03	.17 ± .02
1000	.95 ± .04	.72 ± .08	.40 ± .04
2000	.92 ± .03	.94 ± .05	.68 ± .03
4000	.95 ± .05	.97 ± .05	.94 ± .05
Noise Reduction Co-efficient (NRC)	.75	.50	.30