

## 15260S01- PIPE INSULATION (INTERIOR)

See chart below for fiberglass \*\* insulation application & thickness (inches) for listed pipe diameters

PIPE SYSTEM	TEMP RANGE DEG F	1	Pipe Diameter Range (inches)				
			1.25-2	2.5-4	5-6	8-10	12 -
			Insulation Thickness (inches)				
HIGH PRESS STEAM ( - 76 PSIG)	320 - 500	2.5	2.5	3.0	3.5	3.5	4.0
MED PRESS STEAM (21 - 75 PSIG)	260 - 320	2.0	2.5	2.5	3.0	3.0	3.5
LOW PRESS STEAM (0 - 20 PSIG)	201 - 260	1.5	1.5	2.0	2.0	2.5	3.0
HOT WATER* /HEATING WATER*	120 - 200	1.0	1.0	1.5	2.0	2.0	2.0
CONDENSATE	180 - 250	1.5	1.5	2.0	2.0	2.5	2.5
DOMESTIC WATER*	55 - 70	0.5	1.0	1.0	1.0	1.0	1.0
CHILLED WATER*	40 - 55	1.0	1.5	1.5	2.0	2.0	2.0

### NOTES:

\* Equivalent thickness of closed cell foam insulation may be used. Where possible, insulation tubes are to be slipped over the carrier pipe (not slit). Joints and seams are to be neat and sealed. Closed cell foam is also to be used for exposed drains and refrigerant piping.

Exposed piping in any room and all piping in boiler or mechanical rooms shall have an 8 ounce canvas jacket applied over the fiberglass factory ASJ/SSL jacketing to further protect the insulation from abuse. This jacketing must be properly applied with lagging adhesive, such that the outer surface is smooth and free of wrinkles. The canvas jacketing in all mechanical areas is to be prepared for painting, and then painted according to the University of Kentucky standard piping color coding. All chilled water piping insulation shall be completely sealed so that a perfect vapor barrier is achieved.

\*\* Calcium Silicate insulation is preferred over fiberglass in mechanical and heating plant applications, where piping is more subject to abuse. Insulation in mechanical areas must be protected with an 8 oz. canvas jacket applied with lagging adhesive.

### CALCIUM SILICATE INSULATION APPLICATION & THICKNESS (inches)

PIPE SYSTEM	TEMP RANGE DEG F	-1	Pipe Diameter (inches)			
			1.25-2	2.5 - 6	8	10 -
HIGH PRESS STEAM	320 - 500	3.0	3.5	4.0	4.0	4.0

## 15260S01- PIPE INSULATION (INTERIOR)

Author: Main Campus PPD

Dated: 7/01

Applies to: All Projects

University of Kentucky

# 15260S01- PIPE INSULATION (INTERIOR)

( -76 PSIG)

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MED PRESS	260 -	2.5	3.0	3.5	4.0	4.0
STEAM	320					

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(21-75 PSIG)

1. Insulate all surfaces not requiring constant access.
2. Provide removable insulation for surfaces requiring periodic access.
3. Insulate all surfaces creating a burn hazard.
4. Exposed piping in any room and all piping in boiler or mechanical rooms shall have an 8 ounce canvas jacket applied over the fiberglass factory ASJ/SSL jacketing to further protect the insulation from abuse. This jacketing must be properly applied with lagging adhesive, such that the outer surface is smooth and free of wrinkles. The canvas jacketing in all mechanical areas is to be prepared for painting, and then painted according to the University of Kentucky standard piping color coding. All chilled water piping insulation shall be completely sealed so that a perfect vapor barrier is achieved.

**NOTE:**

- \*\* Calcium Silicate insulation is preferred over fiberglass in mechanical and heating plant applications, where piping is more subject to abuse. Insulation in mechanical areas must be protected with an 8 oz. canvas jacket applied with lagging adhesive.