

K-FLEX INSULATION CLEAN ROOM ACCEPTABILITY

K-Flex USA insulation products have been approved by, and are included in the master specifications of, several major engineering firms for use within clean rooms. Flexible, elastomeric closed cell foams are non-fibrous and virtually dust-free. Pipe insulation products designated for clean room applications must be ordered *without talc*.

Typically, the air movement within a clean room is maintained at laminar flow (less than 100 ft / min). Clean rooms are classified per Federal Standard FED-STD-209E, “*Airborne Particulate Cleanliness Classes in Clean Room and Clean Zones*”. Air samplers, located throughout the room, periodically monitor the particle count as prescribed in FED-STD-209E.

Listed below are examples of several classifications.

<u>English Classification</u>	<u>SI Classification</u>	<u>Maximum Particles per ft³ of Air (particle size: 0.5 micron and larger)</u>
Class 1	Class M 1.5	1
Class 10	Class M 2.5	10
Class 100	Class M 3.5	100
Class 1,000	Class M 4.5	1,000
Class 10,000	Class M 5.5	10,000
Class 100,000	Class M 6.5	100,000

Engineering Note:

One micron is equal to one millionth of a meter or one thousandth of a millimeter.

Specific testing can be done upon request.

