

## SZECO® 500 Insulation

Cellular Glass, Its Main Composite Is Glass Mixed With Foam Agent, Produced Through High Temperature Foaming And Annealling, Is a New Type Of Inorganic Thermal Insulation Material Composed By Thousands Of Tiny Uniform Hermetically Sealed Glass Cells. The Features Are: Low Density, Low Thermal Conductivity, Vapor-Tight, Waterproof, Non-Combustible, Mouldproof, Pest Proof, High Mechanical Strength But Easy To Process And Anti Chemical Corrosion Except Hydrofluoric Acid And Etc. It Contains No Ozone Depleting Propellants, Flame Resistant Additives Or Binders, Without Voc Or Other Volatile Substances.

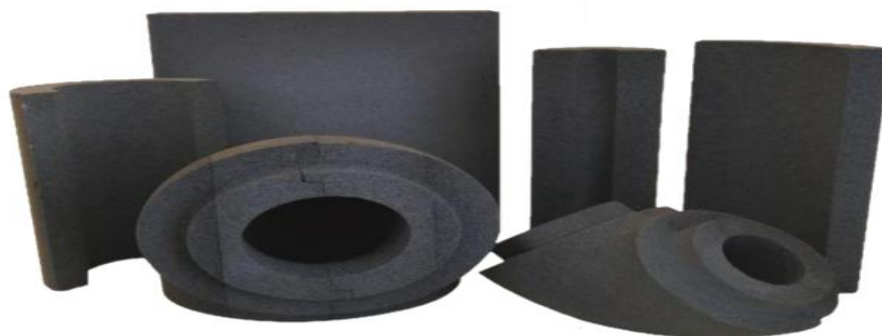
### STANDARDS, CERTIFICATIONS

ASTM C552 STANDARD SPECIFICATION FOR CELLULAR GLASS THERMAL INSULATION.

ISO9001 CPT-QUALITY MANAGEMENT

ISO9001 QUALITY MANAGEMENT

ISO14001 ENVIRONMENTAL MANAGEMENT



### PHYSICAL AND THERMAL PROPERTIES

|                                         |                           |                   |                    |
|-----------------------------------------|---------------------------|-------------------|--------------------|
| Density (±15% Tolerance)                | ASTM C303                 | kg/m <sup>3</sup> | 115                |
| Compressive Strength Ave                | ASTM C165                 | Mpa               | ≥0.65              |
| Bending Strength Ave                    | ASTM C203                 | Mpa               | ≥0.30              |
| Water Absorption                        | ASTM C240                 | Vol%              | 0.2                |
| Coefficient of Linear Thermal Expansion | ASTM E228                 | 1/K               | 9×10 <sup>-6</sup> |
| Water Vapor Permeability                | ASTM E96                  | ng/(pa.m.s)       | ≤0.007             |
| Service Temperature                     | -268~480℃                 |                   |                    |
| Combustibility                          | Non Combustible(Class A1) |                   |                    |
| Colour                                  | Black/Gray                |                   |                    |
| Standard                                | ASTM C552                 |                   |                    |

### THERMAL CONDUCTIVITY VALUES AT SELECT TEMPERATURES (ASTM C518/ C177)

| TEMPERATURE | ℃     | -180  | -157  | -129  | -101  | -73   | -46   | -18   | 10    | 24    | 38    | 93    | 149   | 204   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | (°F)  | -292  | -250  | -200  | -150  | -100  | -50   | 0     | 50    | 75    | 100   | 200   | 300   | 400   |
| ASTM C552   | W/m K | N/A   | 0.023 | 0.025 | 0.027 | 0.030 | 0.035 | 0.039 | 0.043 | 0.045 | 0.048 | 0.058 | 0.072 | 0.084 |
| SZECO® 500  | W/m K | 0.021 | 0.022 | 0.025 | 0.026 | 0.029 | 0.034 | 0.037 | 0.040 | 0.044 | 0.046 | 0.057 | N/A   | N/A   |

### APPLICATIONS

- Cold & cryogenic system
- Low temperature pipe,equipment and vessels
- Steam and chilled water piping
- Commercial piping and duct work
- Petrochemical processing systems