# Infrared Furnaces - Desktop & Vertical

ASP ENG Co.
Artineh Sanat Parto Co.

1- Uniform thermal distribution within the hot zone (Skin Effect)

2- High heaing (600 °C/min) & cooling (250 °C/min) rates

3- Rapid heat treatment & thermal shock cycling

4- Surface heat treatment

| Model | Heating Length (cm) | Type | Voltage (V) | Power (KW) | Max Heating rate (°C/min) | Design Temperature (°C) | Working Temperature (°C) |
|---|---|---|---|---|---|---|---|
| FIR12-30-V | 30 cm | Vertical | 380 | 12 KW | 5 °C/s | 1000 | 900 |
| FIR18-30-V | 30 cm | Vertical | 380 | 18 KW | 10 °C/s | 1100 | 1000 |
| FIR12-50-V | 50 cm | Vertical | 380 | 12 KW | 5 °C/s | 1000 | 900 |
| FIR18-50-V | 30 cm | Vertical | 380 | 18 KW | 10 °C/s | 1100 | 1000 |
| FIR12-30-H | 30 cm | Desktop | 380 | 12 KW | 5 °C/s | 1000 | 900 |
| FIR18-30-H | 30 cm | Desktop | 380 | 18 KW | 10 °C/s | 1100 | 1000 |
| FIR12-50-H | 50 cm | Desktop | 380 | 12 KW | 5 °C/s | 1000 | 900 |
| FIR18-50-H | 50 cm | Desktop | 380 | 18 KW | 10 °C/s | 1100 | 1000 |
| The furnace must be equipped to a cooling tower or air-cooled water system | | | | | | | |

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# Infrared Dryers (Oven)

ASP ENG Co.
Artineh Sanat Parto Co.

1- High efficiency, quality, durability & production rate

2- Products design appealing to target requirements

3- Local concentrated heating

4- After-sale services

| Model | Tray Area (L * W in cm) | Section | Voltage (V) | Power (KW) | Dry fruit capacity (Kg) | Working Temperature (°C) |
|---|---|---|---|---|---|---|
| DIR-50-1 | 50×40 | 1 | 220 | 2 KW | 2 | 100 |
| DIR-50-2 | 50×40 | 2 | 220 | 4 KW | 4 | 100 |
| DIR-50-4 | 50×40 | 4 | 200 | 8 KW | 8 | 100 |
| DIR-100-CO | 100×100 | - | 380 | 10 KW | 10 | 100 |

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# Infrared Piant Dryers

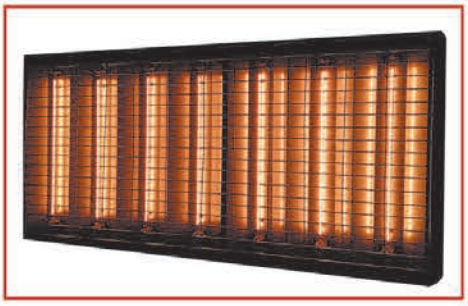
ASP ENG Co.
Artineh Sanat Parto Co.

1- High heat transfer capacity

2- Heating requires no contact

3- Products design appealing to the target customer dimensions

4- Short response times with fast heating enabling good controlability and quality



| Model | Radiation Area ($Cm^2$) | Panel Dimensions (Cm) | Panels Quantity | Lamps Quantity | Voltage (V) | Power (KW) | Working Temperature (°C) |
|---|---|---|---|---|---|---|---|
| PIR30-1 | 30×15 | 40×20 | 1 | 1 | 220 | 2 KW | 150 |
| PIR50-1 | 50×15 | 60×20 | 1 | 1 | 220 | 2 KW | 150 |
| PIR80-1 | 80×15 | 90×20 | 1 | 1 | 220 | 2 KW | 150 |
| PIR80-3 | 80×50 | 90×55 | 3 | 3 | 220 | 6 KW | 250 |
| PIR-Robot-1 | 50×70 | 60×80 | 1 | 4 | 220 | 8 KW | 250 |

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# Tungsten, Carbon Fibers & Ceramic Infrared Emmitors

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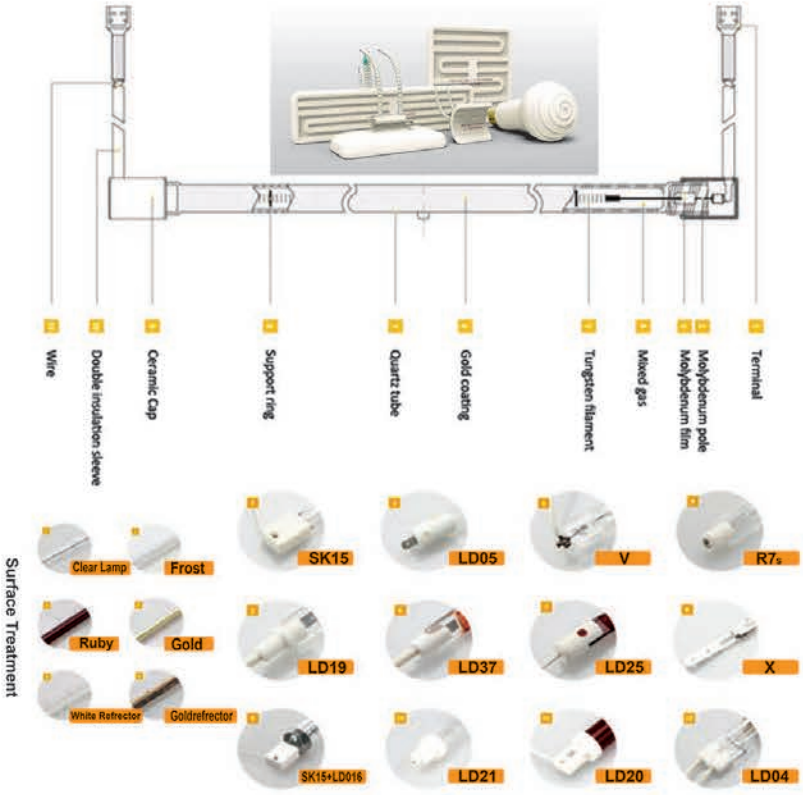


| Wavelength | Abbreviation | Wave Length (μm) | Power (KW) | Heating Element |
|---|---|---|---|---|
| Near infrared | NIR, IR-A | 0.75-1.4 | 0.5-5 | Tungsten Halogen Lamp |
| Short-wave infrared | SWIR, IR-B | 1.4-3 | 0.5-3 | Tungsten Halogen Lamp |
| Mid-wave infrared | MWIR, IR-C | 3-8 | 0.5-2 | Carbon Fiber Halogen Lamp |
| Long-wave infrared | LWIR, IR-C | 8-15 | 0.2-2 | Ceramic Infrared Emitter |
| Far infrared | FIR | 15-1000 | 0.2-2 | Ceramic Infrared Emitter |

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# Laboratory Air Flow & Hot Air Ovens

ASP ENG Co.
Artineh Sanat Parto Co.

1- Provide uniform temperatures distribution and precise control

2- Drying, heating and curing polymer materials

3- After-sales services



| Model | Hot Zone Dimension (L*D*H in cm) | Furnace capacity (L) | Voltage (V) | Power (KW) | Element Material | Working Temperature (°C) |
|---|---|---|---|---|---|---|
| Oven | 30×30×30 | 27 | 220 | 2 | Kanthal (FeCrAl alloy) A1 | 300 |
| | 40×40×40 | 64 | 220 | 3 | Kanthal (FeCrAl alloy) A1 | 300 |
| | 50×50×50 | 125 | 220 | 4 | Kanthal (FeCrAl alloy) A1 | 300 |
| | 100×100×200 | 2000 | 380 | 10 | Kanthal (FeCrAl alloy) A1 | 300 |

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# Box Type Electric Furnaces

ASP ENG Co.
Artineh Sanat Parto Co.

1- Uniform furnace thermal gradient with precise temperature control

2- products design appealing to the target dimensions and options

3- User-friendly design with easy-to-handle operation

4- After-sales services

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# Box Type Electric Furnaces

ASP ENG Co.
Artineh Sanat Parto Co.

| Model | Hot Zone Dimension (L*D*H in cm) | Furnace capacity (L) | Type | Voltage (V) | Power (KW) | Element Material | Design Temperature (°C) | Working Temperature (°C) |
|---|---|---|---|---|---|---|---|---|
| BEF1200C-2L | 10×10×20 | 2 | Front Door | 220 | 2 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-10L | 20×20×25 | 10 | Front Door | 220 | 3 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-32L | 30×30×35 | 32 | Front Door | 220 | 4 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-64L | 40×40×40 | 64 | Front Door | 220 | 5 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-125L | 50×50×50 | 125 | Front Door | 220 | 7 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-200L | 60×60×55 | 200 | Front Door | 220 | 9 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BFTD 1200C-200L | 60×60×55 | 200 | Top Door | 380 | 12 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-300L | 60×60×85 | 300 | Front Door | 380 | 12 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BFTD 1200C-400L | 60×65×100 | 400 | Top Door | 380 | 15 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-500L | 70×70×100 | 500 | Front Door | 380 | 20 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1200C-1000L | 100×100×100 | 1000 | Front Door | 380 | 33 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEF1450C-2L | 10×10×20 | 2 | Front Door | 220 | 2 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1450C-10L | 20×20×25 | 10 | Front Door | 220 | 3 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1450C-32L | 30×30×35 | 32 | Front Door | 220 | 5 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1450C-64L | 40×40×40 | 64 | Front Door | 220 | 7 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1450C-500L | 70×70×100 | 500 | Front Door | 380 | 20 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1450C-1000L | 100×100×100 | 1000 | Front Door | 380 | 33 | SiC – GD/SC/SCR Type | 1500 | 1450 |
| BEF1700C-2L | 10×10×20 | 2 | Front Door | 220 | 1.5 | $MoSi_2$ – Straight/U type | 1800 | 1750 |
| BEF1700C-10L | 20×20×25 | 10 | Front Door | 220 | 3 | $MoSi_2$ – Straight/U type | 1800 | 1750 |
| BEF1700C-32L | 30×30×35 | 32 | Front Door | 220 | 4 | $MoSi_2$ – Straight/U type | 1800 | 1750 |
| BEF1700C-64L | 40×40×40 | 64 | Front Door | 220 | 5 | $MoSi_2$ – Straight/U type | 1800 | 1750 |



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# Electric Tube Furnaces

ASP ENG Co.
Artineh Sanat Parto Co.

1- Design appealing to the target dimensions

2- Ability to rotate 360 degrees and height adjustment

3- Precise high temperature control (± 1 °C) and fast sample loading

4- Developing process by a reactor for vacuum or atmosphere heat treatment Products

| Model | Tube Diameter (cm) | Type | Voltage (V) | Power (KW) | Element Material | Reactor Material | Design Temperature (°C) | Working Temperature (°C) |
|---|---|---|---|---|---|---|---|---|
| TF12-7-30 | 7 | Desktop | 220 | 3 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| TFS12-7-30 | 7 | Split | 220 | 3 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| TF12-9-30 | 9 | Desktop | 220 | 3.5 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| VTFS12-9-30 | 9 | Split | 220 | 3 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| VTF12-9-30 | 9 | Vertical | 220 | 3 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| 2TF12-7-30 | 7 | Desktop ++ (Double Hot Zone) | 220 | 6 | Kanthal (FeCrAl alloy) A1 | S.S 310 / Quartz | 1200 | 1150 |
| TF14-7-35 | 7 | Desktop | 220 | 6 | SiC – GD/SC/GC Type | SiC/Alumina | 1500 | 1450 |
| TF14-9-35 | 9 | Desktop | 220 | 6 | SiC – GD/SC/GC Type | SiC/Alumina | 1500 | 1450 |
| TF17-5-30 | 5 | Horizontal | 220 | 4 | $MoSi_2$ – Straight type | Alumina high Density 99.8 | 1800 | 1750 |
| TF17-7-30 | 7 | Horizontal | 220 | 5 | $MoSi_2$ – Straight type | Alumina high Density 99.8 | 1800 | 1750 |

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# Electric Box Atmosphere Controlled Furnaces

ASP ENG Co.
Artineh Sanat Parto Co.

1- Heat treatment of metallic, ceramic and composite materials under, neutral, mixed (Ar-$H_2$, $N_2$-$H_2$) and Hydrogen atmospheres up to 1700 °C temperature

2- Uniform furnace temperature gradient with precise temperature control (± 2 °C)

3- Equipped with an air-cooled water cooling system



| Model | Hot Zone Dimension (L*D*H in cm) | Furnace capacity (L) | Voltage (V) | Power (KW) | Element Material | Design Temperature (°C) | Working Temperature (°C) |
|---|---|---|---|---|---|---|---|
| BAF -1150-30L | 30×30×30 | 30 | 220 | 4 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BAF -1150-64L | 40×40×40 | 64 | 220 | 5 | | 1200 | 1150 |
| BAF -1450-30L | 30×30×30 | 30 | 380 | 6 | SiC – SCR Type (or Mo wire) | 1500 | 1450 |
| BAF -1450-64L | 40×40×40 | 64 | 380 | 8 | | 1500 | 1450 |
| BAF -1750-30L | 30×30×30 | 30 | 380 | 3 | $MoSi_2$ – U type | 1800 | 1750 |
| BAF -1450-64L | 40×40×40 | 64 | 380 | 5 | | 1800 | 1750 |

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# Bottom Loading/Opening Furnaces

ASP ENG Co.
Artineh Sanat Parto Co.

1- Fast heat treatment of materials (quenching, melting & thermal shock)

2- Uniform furnace temperature gradient with precise temperature control (± 1 °C)

3- Design products appealing to the target dimensions

4- User-friendly design with easy sample loading

| Model | Hot Zone Dimension (L*D*H in cm) | Voltage (V) | Power (KW) | Element Material | Design Temperature (°C) | Working Temperature (°C) |
|---|---|---|---|---|---|---|
| BEL1200-8L | 20×20×20 | 220 | 3 | Kanthal (FeCrAl alloy) A1 | 1200 | 1150 |
| BEL1200-27L | 30×30×30 | 220 | 6 | | | |
| BEL1400-8L | 20×20×20 | 220 | 8 | SiC–GD/SC/GC Type | 1450 | 1400 |
| BEL1400-27L | 30×30×30 | 380 | 6 | | | |
| BEL1700-8L | 20×20×20 | 220 | 8 | $MoSi_2$–U type | 1750 | 1700 |
| BEL1700-27L | 30×30×30 | 380 | 5 | | | |

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# Silicon Carbide (SiC) Heating Elements

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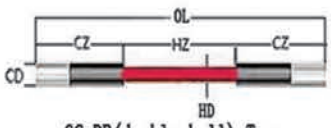
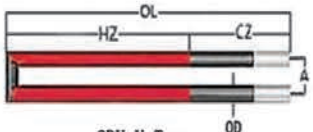
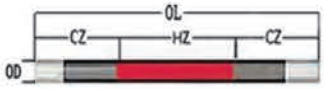


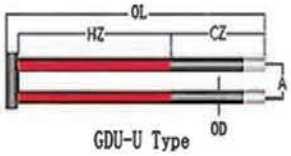

GC-DB(double bell) Type



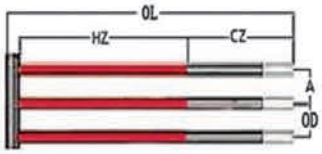

GDU-U Type



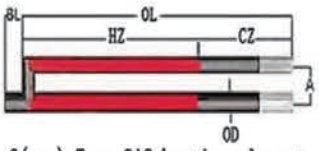

GD-ED(rod) Type SiC heating element



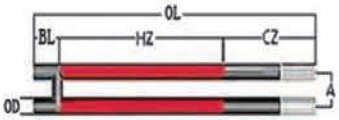

GDU-U Type



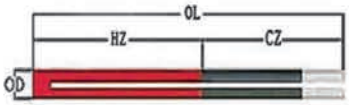

GDS-W(three phase) Type



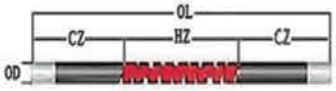

G(gun) Type SiC heating element



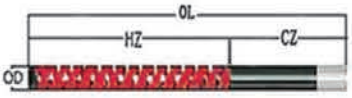

H Type SiC heating element



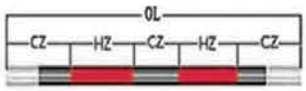

Trough Type SiC heating element




SC(single spiral) Type




SCR(double spiral) Type




Double Thermal Insulation Type

| Atmosphere | Maximum Working Temperature of the Element (° C) | Comments |
|---|---|---|
| Clean Air | 1650 | No detrimental effect |
| Pure oxygen | 1500 | Faster oxidization than in air. |
| Nitrogen | 1350 | Form insulating Silicon Nitrides |
| Dry hydrogen | 1200 | Reduces silica film, Form $CH_4$ from SiC |
| Dry exothermic gas | 1400 | Dependent on composition |
| Dry endothermicgas | 1255 | Dependent on composition |
| Vacuum | 1200 | Below vaporizes SiC. Short term use only |

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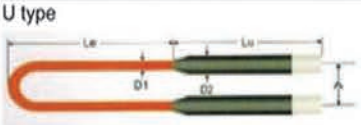
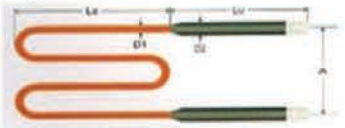
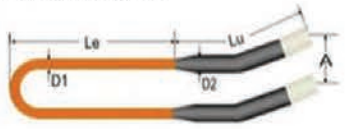
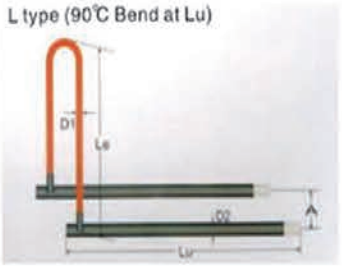
# Molybdenum Disilicide ($MoSi_2$) Heating Elements

Artineh Sanat Parto Co.

| Types of mosi2 heater | Pictures |
|---|---|
| U type  |  |
| W type  |  |
| Straight type  |  |
| L type(bend 135℃)  |  |

| L type（bend 90℃） | |
|---|---|
| L type (90℃ Bend at Lu)  |  |
| |  |
| Special shape  |  |

1. Specifications (mm): 3/6, 4/9, 6/12, 7/14, 9/18, 12/24. Other types can customize.
2. D1（Diameter of hot zone）:mm
3. D2(Diameter of cold zone):mm
4. Le(Length of hot zone):mm
5. Lu(Length of cold zone):mm
6. A(Shank spacing):mm

| Atmosphere | The Maximum Working Temperature of the Element | |
|---|---|---|
| $NO_2$, $CO_2$, $O_2$, Air | 1700 °C | 1800 °C |
| He, Ar, Ne | 1650 °C | 1750 °C |
| $SO_2$ | 1600 °C | 1700 °C |
| CO, $H_2$ | 1500 °C | 1600 °C |
| Wet $H_2$ | 1400 °C | 1500 °C |
| Dry $H_2$ | 1350 °C | 1450 °C |

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# Manufacturing Muffle Block, Fire Clay, SiC, Alumina and Graphite Boats & Crucibles

ASP ENG Co.
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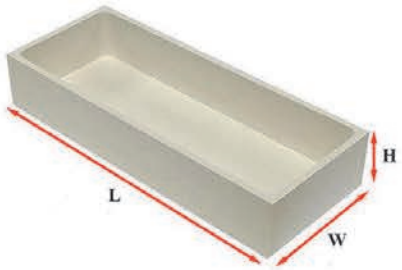
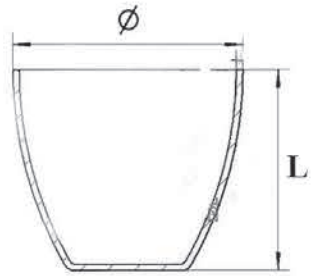
| Material | Geometry | Dimension (mm) | Volume (CC) | Max Allowable Temp (°C) |
|---|---|---|---|---|
| Fire Clay (Fire Assay) | Crucible | 40*40 | 25 | 1400 |
| | | 50*50 | 50 | 1400 |
| | | 65*60 | 100 | 1400 |
| | | 80*90 | 150 | 1400 |
| | | 105*170 | 500 | 1400 |
| | Boat | 25×40×50 | 20 | 1400 |
| | | 30×40×100 | 75 | 1400 |
| | | 30×40×140 | 125 | 1400 |
| | | 30×50×220 | 200 | 1400 |
| | | 50×90×90 | 300 | 1400 |
| Alumina | Crucibl | 35*30 | 10 | 1700 |
| | | 40*40 | 30 | 1700 |
| | | 80*90 | 150 | 1700 |
| | Boat | 20×40×50 | 25 | 1700 |
| | | 20×40×90 | 50 | 1700 |
| | | 20×30×130 | 75 | 1700 |
| | | 40×20×170 | 100 | 1700 |
| SiC | Crucible | 35*30 | 10 | 1500 |
| | | 40*40 | 30 | 1500 |
| | | 80*90 | 150 | 1500 |
| | Boat | 20×40×50 | 25 | 1500 |
| | | 20×40×90 | 50 | 1500 |
| | | 20×30×130 | 75 | 1500 |
| | | 40×20×170 | 100 | 1500 |
| Graphite | Crucible | 35*30 | 10 | 2200 |
| | | 40*40 | 30 | 2200 |
| | | 80*90 | 150 | 2200 |
| | Boat | 20×40×50 | 25 | 2200 |
| | | 20×40×90 | 50 | 2200 |
| | | 20×30×130 | 75 | 2200 |
| | | 40×20×170 | 100 | 2200 |

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# Producing Different Thermocouples

ASP ENG Co.
Artineh Sanat Parto Co.

| ANSI Code | ANSI MC 96.1 Color Coding | | Alloy Combination | | Comments Environment Bare Wire | Maximum T/C Grade Temp Range | EMF (mV) Over Max Temp Range | IEC 584-3 Color Coding | | IEC Code |
|---|---|---|---|---|---|---|---|---|---|---|
| | Thermocouple Grade | Extension Grade | + Lead | – Lead | | | | Thermocouple Grade | Intrinsically Safe | |
| J |  |  | IRON Fe (magnetic) | CONSTANTAN COPPER-NICKEL Cu-Ni | Reducing, Vacuum, Inert. Limited Use in Oxidizing at High Temperatures. Not Recommended for Low Temperatures. | –210 to 1200°C –346 to 2193°F | –8.095 to 69.553 |  |  | J |
| K |  |  | CHROMEGA® NICKEL-CHROMIUM Ni-Cr | ALOMEGA® NICKEL-ALUMINUM Ni-Al (magnetic) | Clean Oxidizing and Inert. Limited Use in Vacuum or Reducing. Wide Temperature Range, Most Popular Calibration | –270 to 1372°C –454 to 2501°F | –6.458 to 54.886 |  |  | K |
| T |  |  | COPPER Cu | CONSTANTAN COPPER-NICKEL Cu–Ni | Mild Oxidizing, Reducing Vacuum or Inert. Good Where Moisture Is Present. Low Temperature & Cryogenic Applications | –270 to 400°C –454 to 752°F | –6.258 to 20.872 |  |  | T |
| E |  |  | CHROMEGA® NICKEL-CHROMIUM Ni-Cr | CONSTANTAN COPPER-NICKEL Cu-Ni | Oxidizing or Inert. Limited Use in Vacuum or Reducing. Highest EMF Change Per Degree | –270 to 1000°C –454 to 1832°F | –9.835 to 76.373 |  |  | E |
| N |  |  | OMEGA-P® NICROSIL Ni-Cr-Si | OMEGA-N® NISIL Ni-Si-Mg | Alternative to Type K. More Stable at High Temps | –270 to 1300°C –450 to 2372°F | –4.345 to 47.513 |  |  | N |
| R | NONE ESTABLISHED |  | PLATINUM-13% RHODIUM Pt-13% Rh | PLATINUM Pt | Oxidizing or Inert. Do Not Insert in Metal Tubes. Beware of Contamination. High Temperature | –50 to 1768°C –58 to 3214°F | –0.226 to 21.101 |  |  | R |
| S | NONE ESTABLISHED |  | PLATINUM-10% RHODIUM Pt-10% Rh | PLATINUM Pt | Oxidizing or Inert. Do Not Insert in Metal Tubes. Beware of Contamination. High Temperature | –50 to 1768°C –58 to 3214°F | –0.236 to 18.693 |  |  | S |
| U | NONE ESTABLISHED |  | COPPER Cu | COPPER-LOW NICKEL Cu-Ni | Extension Grade Connecting Wire for R & S Thermocouples. Also Known as RX & SX Extension Wire. | | |  |  | U |
| B | NONE ESTABLISHED |  | PLATINUM-30% RHODIUM Pt-30% Rh | PLATINUM-6% RHODIUM Pt-6% Rh | Oxidizing or Inert. Do Not Insert in Metal Tubes. Beware of Contamination. High Temp. Common Use in Glass Industry | 0 to 1820°C 32 to 3308°F | 0 to 13.820 |  |  | B |

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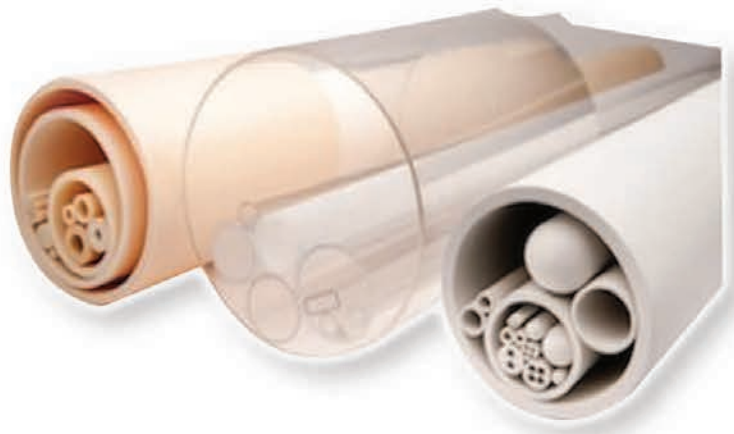
# Supplying Ceramic Fiber Boards, Quartz/SiC & Alumina Pipes (Reactor)

ASP ENG Co.
Artineh Sanat Parto Co.



| Description | 1260 Ceramic Fiber Board | 1425 Ceramic Fiber Board | 1600 Ceramic Fiber Board | 1800 Ceramic Fiber Board | 1900 Ceramic Fiber Board |
|---|---|---|---|---|---|
| Classification Temperature(°C) | 1260 | 1425 | 1600 | 1800 | 1900 |
| Density (Kg/m3) | 250-350 | 250-350 | 300-350 | 300-500 | 300-500 |
| Linear shrinkage(%) (°C*24 h) | 1.1 (1100) | 1.6 (1200) | 1.2 (1400) | 1.0 (1600) | <1.0 (1500) |
| Rupture Strength (Kg/Cm2) | 5 | 5 | 6 | 6 | 6 |
| Thermal conductivity rate Kcal/mh°C (w/mk) ,ASTM C201 | | | | | |
| - | 250 Kg/m3 | 250 Kg/m3 | 300 Kg/m3 | 300 Kg/m3 | 500 Kg/m3 |
| Average 400°C | 0.09 | - | - | - | - |
| Average 600°C | 0.14 | 0.1 | 0.12 | - | - |
| Average 800°C | 0.18 | 0.14 | 0.16 | - | 0.12 |
| Average 1000°C | - | 0.2 | 0.21 | 0.211 | 0.19 |
| Average 1200°C | - | - | - | 0.232 | 0.22 |
| Average 1800°C | - | - | - | 0.7 | 0.7 |
| Chemical composition (%) | | | | | |
| $Al_2O_3$ | 42 | 45 | 72 | 75 | 87 |
| $Sio_2+Al_2O_3$ | 75 | 80 | 98 | 99 | >99.5 |
| $Fe_2O_3$ | 0.2 | 0.2 | <0.1 | <0.1 | <0.1 |
| Dimension (mm/pcs) | 1200*1000*25/50; | | | | |
| | 900*600*6/12.5/20/25/50 | | | | |

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