

致力于炭素新材料行业的发展与繁荣!
Dedicated to Carbon Material Technology Development and Manufacturing!



CHEMSHINE

四川骏瑞碳纤维材料有限公司 CHEMSHINE CARBON CO.,LTD



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CHEMSHINE CARBON CO.,LTD

厦门总部

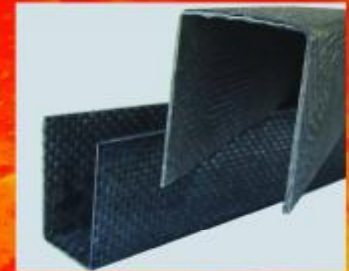
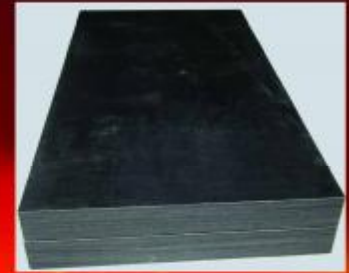
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ISO9001 质量管理体系
ISO9001 CERTIFICATE

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单晶硅炉应用 For CZ Silicon Furnace

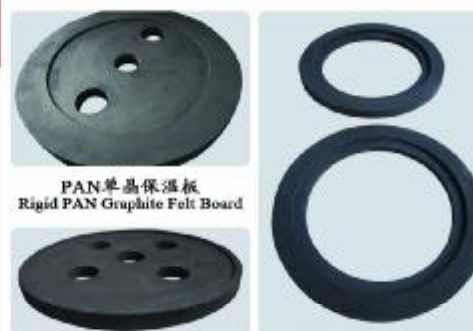
PAN/粘胶硬质复合毡 Rigid PAN/Rayon Based Graphite Felt Board/Cylinder

四川骏瑞硬质复合毡，以聚丙烯腈基/粘胶基短纤维为基础材料，均是从原丝织白毡、预氧、碳化、石墨化一条龙处理，从而保证了每一个生产环节的质量控制，以及产品质量的稳定性，因此给硬质复合毡提供了稳定优良的原材料，并将软毡与碳布、石墨纸等经过特殊工艺粘合、固化、定型，二次高温热处理制得，具有一定的形状保持性，比重小、无短纤脱落、导热系数低、抗热震、耐烧蚀、使用寿命长、便于安装等优点。

Chemshine Rayon based rigid insulating products and PAN based rigid insulating products are processed for inert or vacuum furnaces up to 2500D.C. Graphite foil, CFC or paint can be covered on surfaces to reduce dusting, out gassing, or applied as heat reflection.

四川骏瑞固化毡技术指标 (Technical Specifications)

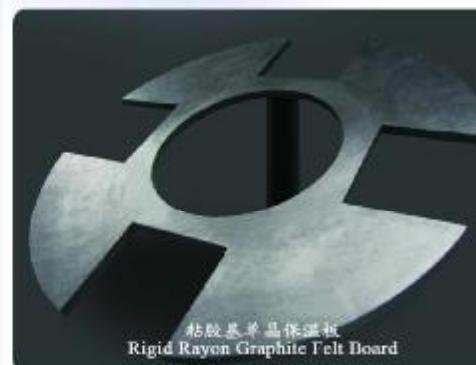
| 技术指标 (Technical Specifications) | 单位(Unit) | 测定环境温度(℃) (Temperature) | PAN 固化毡 (PAN Graphite Felt Board/Cylinder) | 粘胶基固化毡 (Rayon Graphite Felt Board/Cylinder) |
|--------------------------------------------|----------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------------------------------------|
| 密度(Volume Density) | g/cm ³ | 20 | 0.19-0.22max | 0.17-0.20max |
| 电阻率 (Specific Resistance) | XY 向 | Ω·mm | 2.5*10 ⁴ | 2.0*10 ⁴ |
| | Z 向 | Ω·mm | 4.5*10 ⁴ | 4.0*10 ⁴ |
| 抗压强度 (Compressive Strength) | XY 向 | Mpa | 1.8 | 1.8 |
| | Z 向 | Mpa | 1.3 | 1.3 |
| 抗弯强度 (Bending Strength) | XY 向 | Mpa | 2.3 | 2.3 |
| | Z 向 | Mpa | 1.8 | 1.8 |
| 热胀系数 (Coefficient of Thermal Expansion) | % | 1000-2000 度 | 3.0 [±] ±0.3 x 10 ⁻⁶ | 3.0 [±] ±0.3 x 10 ⁻⁶ |
| 碳含量(Carbon Content) | % | | ≥99.6 | ≥99.6 |
| 灰分含量(Ash Content) | PPM | | ≤300PPM | ≤300PPM |
| 比热 (Specific Heat) (平均数) | W·sec/(g·K) | 1400 | 1.72 | 1.72 |
| 升华温度 (Sublimation Temperature) | ℃ | | 3600 | 3600 |
| 平均导热系数(Thermal Conductivity) | W/(m·K) | 20 | 真空 0.15 | 真空 0.08 |
| | | | 氮气 0.18 | 氮气 0.09 |
| 规格尺寸(Available Size) | 板(Board): 1600MM*1800MM(Max) 厚度(Thickness): 20-200MM 桶(Cylinder): 最大外径 ø1600MM(Max) | | | |
| 碳化温度(Processing Temperature) | ℃ | | ≥2200 | ≥2200 |



PAN 单晶保温板
Rigid PAN Graphite Felt Board



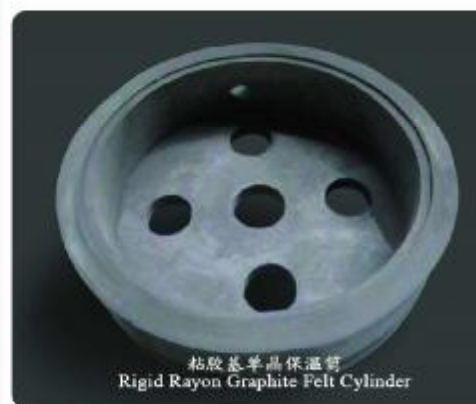
PAN 单晶保温筒
Rigid PAN Graphite Felt Cylinder



粘胶基单晶保温板
Rigid Rayon Graphite Felt Board



单晶炉用炭炭螺帽
Carbon Carbon Screw



粘胶基单晶保温筒
Rigid Rayon Graphite Felt Cylinder

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单晶硅炉应用
For CZ Silicon
Furnace

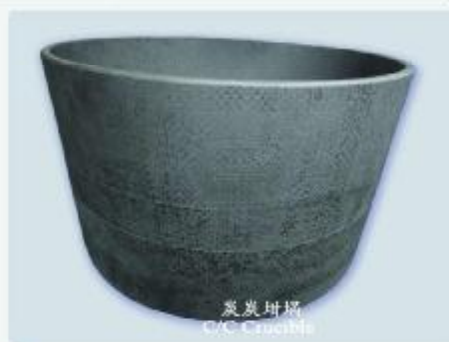
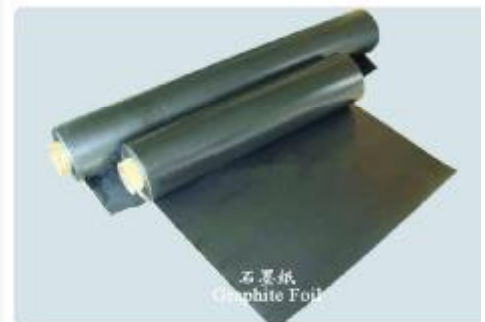
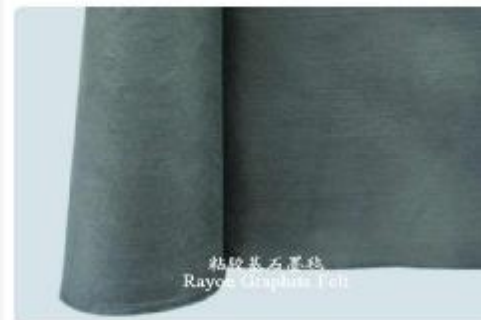
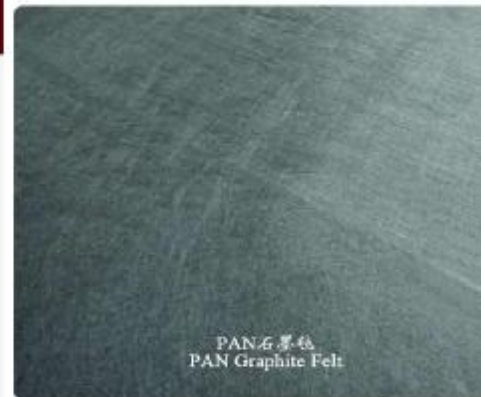
PAN/粘胶石墨软毡 PAN/Rayon Based Graphite Felt

四川骏瑞石墨毡，以聚丙烯腈基/粘胶基短纤维为基础材料，均是从原丝织白毡、预氧、碳化、石墨化一条龙处理，从而保证了每一个生产环节的质量控制，以及产品质量的稳定性，具有质轻、含碳量高、耐烧蚀、抗腐蚀、纯度高、高温无挥发、导热系数小、高温不变形等优异性能，是太阳能行业单晶硅炉优良、稳定、节能的保温材料。

Chemshine graphite felt is produced from PAN based or Rayon based carbon felt. It's High-purity insulation material for various vacuum or inert gas furnaces. Also it can be used as heater and electrode.

石墨毡技术指标 (Technical Specifications)

| 技术指标 (Technical Specifications) | | 单位(Unit) | 测定环境温度(℃) (Temperature) | PAN 石墨毡 (PAN Graphite Felt) | 粘胶基石墨毡 (Rayon Graphite Felt) |
|--------------------------------------|----------------------|-------------------|----------------------------|-----------------------------------------------------------------------|---------------------------------|
| 密度(Volume Density) | | g/cm ³ | 20 | 0.11-0.13 | 0.08-0.09max |
| 电阻率 (Specific Resistance) | 纵向 (Longitudinal) | Ωmm | 20 | <1 | 0.9 |
| | 横向(Transverse) | Ωmm | 20 | <1 | 0.9 |
| 最大张力 | 纵向 (Longitudinal) | N | 20 | 136 | 110 |
| | 横向(Transverse) | N | 20 | 92 | 80 |
| 撕裂强度 | 纵向 (Longitudinal) | N | 20 | 34 | 28 |
| | 横向(Transverse) | N | 20 | 31 | 28 |
| 热收缩率 (Heat shrinkage rate) | | % | 到 3000 | 0.00003 | 0.00003 |
| 吸水率 (Water Absorption) (90%相对湿度下) | | 重量 % | 20 | 1% | 1% |
| 碳含量(Carbon Content) | | PPM | | ≥99.6 | ≥99.6 |
| 灰分含量(Ash Content) | | % | | ≤300PPM | ≤300PPM |
| 比热 (Specific Heat) (平均数) | | W·sec/(g·K) | 1400 | 1.72 | 1.72 |
| 升华温度 (Sublimation Temperature) | | ℃ | | 3600 | 3600 |
| 导热系数(Thermal Conductivity) | | | 25 | 0.07-0.12 | 0.05-0.07 |
| | | | 1400 | 0.40-0.45 | 0.25-0.30 |
| 处理温度(Processing Temperature) | | ℃ | | ≥2200 | ≥2200 |
| 规格(Available Size) | | MM | 常温 | 长(Length): 12000MM 宽(Width): 1000-1400MM 厚(Thickness): 3-12.5MM | |



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四川骏瑞碳纤维材料有限公司 CHEMSHINE CARBON CO., LTD

多晶硅铸锭炉应用 For Polysilicon Ingot Furnace

炭炭复合材料 Carbon/Carbon Composites

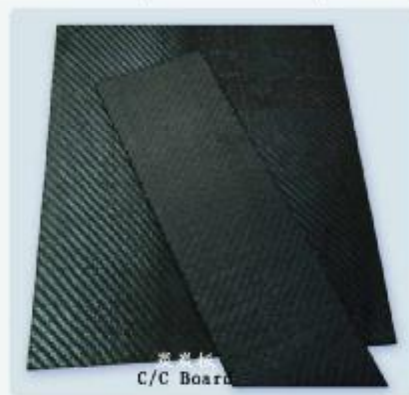
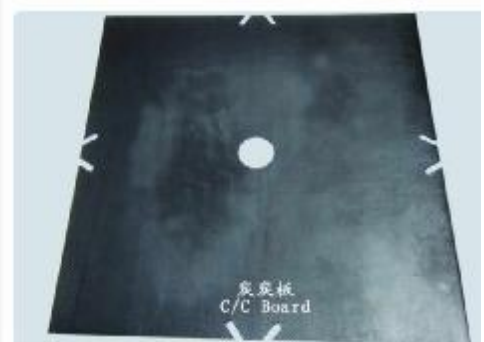
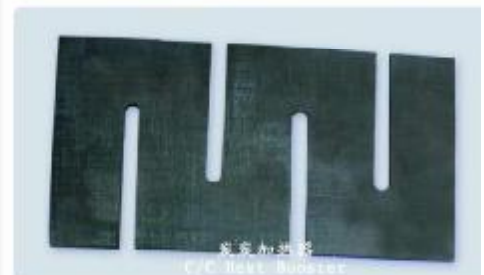
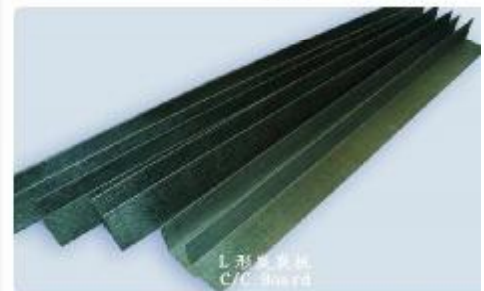
四川骏瑞炭炭复合材料，是以整体炭毡、碳纤维布等材料作为基体，采用气相沉积工艺制得，强度高、比重小、膨胀系数小、耐高温、抗腐蚀、耐磨、抗热震性能好等特点，适用于航天、航空领域，在冶金、化工、机械等领域使用也非常广泛。

炭炭复合材料可加工成各种异型件，如：真空炉风机炭炭叶片、各种螺钉螺母、管材、板材、棒材、料盘、料架，尤其在多晶硅铸锭炉中的应用非常广泛，各种炭炭螺栓螺杆、盖板、加热器等在高温真空条件下发挥出优异的性能。

Carbon fibre reinforced carbon matrix(CK) composites are new materials for vacuum furnaces, with designable performance, stable parameters, high strength and thermal shock resistance. Products as monosilicon or polysilicon furnace heaters, crucibles, fastener parts and insulation plates with various shapes.

炭炭技术指标 (Technical Specifications)

| 技术指标 (Technical Specifications) | 单位 (Unit) | 测定环境温度(°C) (Temperature) | 板材系列 (Carbon/Carbon Sheets) | 螺栓系列 (Carbon/Carbon Bolt Screw) |
|-----------------------------------------------|--------------------------------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|
| 密度(Volume Density) | g/cm ³ | 20 | 1.4-1.6 | >1.7 |
| 抗压强度 (Compressive Strength) | Mpa | 20 | ≥120 | ≥150 |
| 抗弯强度 (Bending Strength) | Mpa | 20 | ≥160 | ≥180 |
| 导热系数(Thermal Conductivity) | W/(m.K) | 25°C | 10-11 | 10-11 |
| 热胀系数 (Coefficient of Thermal Expansion) | 纵向 (Longitudinal) 横向 (Transverse) | ×10 ⁻⁶ /K 1000-2000 度 | 4-5 | 6-8 |
| | | | 0-0.4 | 1-2 |
| 碳含量(Carbon Content) | % | | >99.5 | |
| 杂质含量(Ash Content) | PPM | | <75 | <75 |
| 规格尺寸(Available Size) | 根据客户指定 (The sizes can be tailored after confirmation.) | | | |
| 处理温度(Processing Temperature) | °C | | 2200 | 2200 |
| 最高使用温度 | °C | 真空或惰性气体 | 2500-3000 | 2500-3000 |



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多晶硅铸锭炉应用 For Polysilicon Ingot Furnace

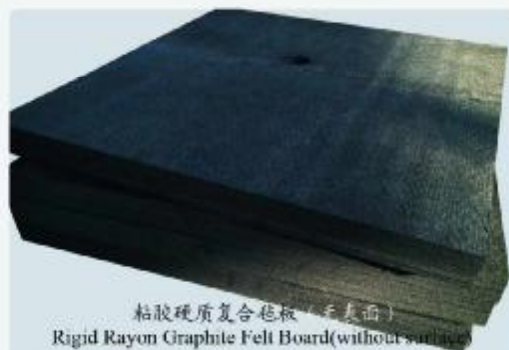
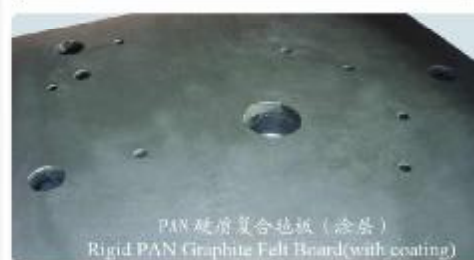
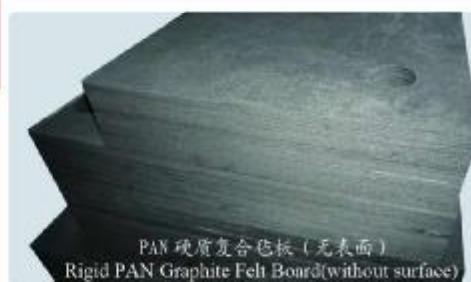
PAN/粘胶硬质复合毡 Rigid PAN/Rayon Graphite Felt Board/Cylinder

四川骏瑞硬质复合毡，以聚丙烯腈基/粘胶基为基础材料，均是从原丝织白毡、预氧、碳化、石墨化一条龙处理，从而保证了每一个生产环节的质量控制，以及产品质量的稳定性，因此给硬质复合毡提供了稳定优良的原材料，并将软毡与碳布、石墨纸等经过特殊工艺粘合、固化、定型，二次高温热处理制得，具有一定的形状保持性，比重小、无短纤脱落、导热系数低、耐烧蚀、使用寿命长、便于安装等优点。

Chemshine Rayon based rigid insulating products and PAN based rigid insulating products are processed for inert or vacuum furnaces up to 2500D.C. Graphite foil, CFC or paint can be covered on surfaces to reduce dusting, out gassing, or applied as heat reflection.

四川骏瑞固化毡技术指标 (Technical Specifications)

| 技术指标 (Technical Specifications) | 单位(Unit) | 测定环境温度(℃) (Temperature) | PAN 固化毡 (PAN Graphite Felt Board/Cylinder) | 粘胶基固化毡 (Rayon Graphite Felt Board/Cylinder) |
|---------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|---------------------------------------------------|
| 密度(Volume Density) | g/cm ³ | 20 | 0.19-0.22max | 0.17-0.20max |
| 电阻率 (Specific Resistance) | XY 向 | Ω·mm | 2.5*10 ⁴ | 2.0*10 ⁴ |
| | Z 向 | Ω·mm | 4.5*10 ⁴ | 4.0*10 ⁴ |
| 抗压强度 (Compressive Strength) | XY 向 | Mpa | 1.8 | 1.8 |
| | Z 向 | Mpa | 1.3 | 1.3 |
| 抗弯强度 (Bending Strength) | XY 向 | Mpa | 2.3 | 2.3 |
| | Z 向 | Mpa | 1.8 | 1.8 |
| 热膨胀系数 (Coefficient of Thermal Expansion) | % | 1000-2000 度 | 3.0+/-0.3 x 10 ⁻⁶ | 3.0+/-0.3 x 10 ⁻⁶ |
| 碳含量(Carbon Content) | % | | ≥99.6 | ≥99.6 |
| 灰分含量(Ash Content) | PPM | | ≤300PPM | ≤300PPM |
| 比热 (Specific Heat) (平均数) | W·sec/(g·K) | 1400 | 1.72 | 1.72 |
| 升华温度 (Sublimation Temperature) | ℃ | | 3600 | 3600 |
| 平均导热系数(Thermal Conductivity) | W/(m·K) | 20 | 真空 0.15 | 真空 0.08 |
| | | | 氩气 0.18 | 氩气 0.09 |
| 规格尺寸(Available Size) | 板(Board): 1600MM* 1800MM(Max) 厚度(Thickness): 20-200MM 桶(Cylinder): 最大外径 φ1600MM(Max) | | | |
| 碳化温度(Processing Temperature) | ℃ | | ≥2200 | ≥2200 |



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各类真空炉 For Vacuum Furnaces

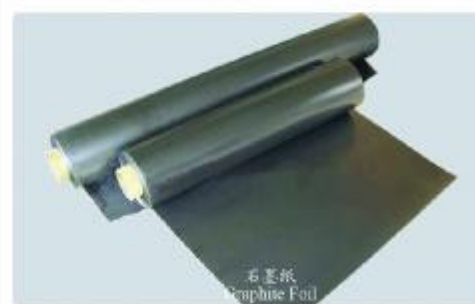
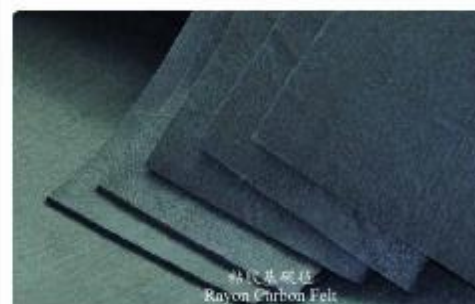
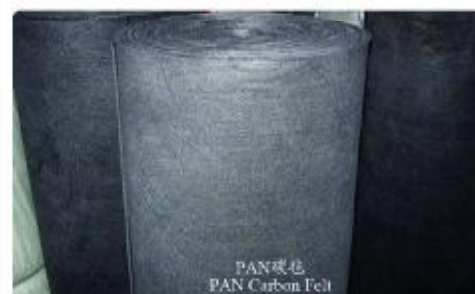
PAN/粘胶碳毡 PAN/Rayon Carbon Felt

四川骏瑞碳毡，以聚丙烯腈基或粘胶基短纤维为基础材料，均是从原丝织白毡、预氧、碳化一条龙处理，从而保证了每一个生产环节的质量控制，以及产品质量的稳定性，具有质轻、含碳量高、耐烧蚀、抗腐蚀、纯度高、高温无挥发、导热系数小、高温不变形等优异性能，是真空热处理炉、真空烧结炉、硬质合金烧结炉、工业陶瓷烧结炉、真空气淬炉等真空设备优良、稳定、节能的保温材料。

Chemshine Carbon felt is produced from PAN /Rayon based carbon felt. It is good insulation material for vacuum and inert gas furnace.

碳毡技术指标 (Technical Specifications)

| 技术指标 (Technical Specifications) | | 单位(Unit) | 测定环境温度(℃) (Temperature) | PAN 碳毡 (PAN Carbon Felt) | 粘胶基碳毡 (Rayon Carbon Felt) |
|------------------------------------|------------------|-------------------|----------------------------|-----------------------------------------------------------------------|------------------------------|
| 密度(Volume Density) | | g/cm ³ | 20 | 0.12-0.14 | 0.08-0.09max |
| 电阻率 (Specific Resistance) | 纵向(Longitudinal) | Ω·mm | 20 | 0.9 | 0.9 |
| | 横向(Transverse) | Ω·mm | 20 | 0.9 | 0.9 |
| 最大张力 | 纵向(Longitudinal) | N | 20 | 110 | 110 |
| | 横向(Transverse) | N | 20 | 80 | 80 |
| 撕裂强度 | 纵向(Longitudinal) | N | 20 | 28 | 28 |
| | 横向(Transverse) | N | 20 | 28 | 28 |
| 热收缩率(Heat shrinkage rate) | | % | 到1800 | 0.00003 | 0.00003 |
| 吸水率(Water Absorption)(90%相对湿度下) | | 重量% | 20 | 1% | 1% |
| 碳含量(Carbon Content) | | % | | ≥99.0 | ≥99.3 |
| 灰分含量(Ash Content) | | PPM | | <800PPM | <600PPM |
| 比热(Specific Heat)(平均数) | | W·sec/(g·K) | 1000 | 1.72 | 1.72 |
| 升华温度(Sublimation Temperature) | | ℃ | | 1200 | 1300 |
| 导热系数(Thermal Conductivity) | | W/(m·K) | 25 | 0.09-0.13 | 0.04-0.07 |
| | | | 1000 | 0.20-0.27 | 0.25-0.30 |
| 处理温度(Processing Temperature) | | ℃ | | ≥1200 | ≥1200 |
| 规格(Available Size) | | MM | 常温 | 长(Length): 12000MM 宽(Width): 1000-1400MM 厚(Thickness): 3-12.5MM | |



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四川骏瑞碳纤维材料有限公司 CHEMSHINE CARBON CO., LTD

各类真空炉 For Vacuum Furnaces

PAN/粘胶硬质复合毡 PAN/Rayon Graphite Felt Board

四川骏瑞硬质复合毡，以聚丙烯腈基或粘胶为基础材料，均是从原丝织白毡、预氧、碳化、石墨化一条龙处理，从而保证了每一个生产环节的质量控制，以及产品质量的稳定性，因此给硬质复合毡提供了稳定优良的原材料，并将软毡与碳布、石墨纸等经过特殊工艺粘合、固化、定型，二次高温热处理制得，具有一定的形状保持性，比重小、无短纤脱落、导热系数低、抗热震、耐烧蚀、使用寿命长、便于安装等优点。

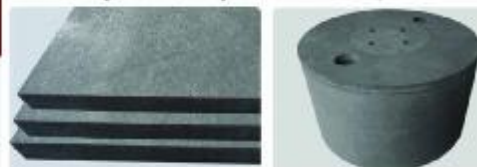
主要应用于：高压真空烧结炉、真空气/油淬烧结炉、硬质合金烧结炉、蓝宝石炉等。

Chemshine Rayon based rigid insulating products and PAN based rigid insulating products are processed for inert or vacuum furnaces up to 2500D.C. Graphite foil、CFC or paint can be covered on surfaces to reduce dusting, out gassing, or applied as heat reflection.

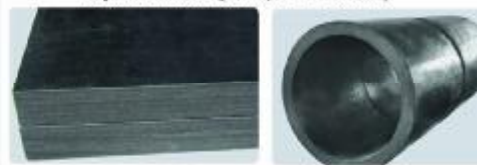
四川骏瑞固化毡技术指标 (Technical Specifications)

| 技术指标 (Technical Specifications) | 单位(Unit) | 测定环境温度(℃) (Temperature) | PAN 固化毡 (PAN Graphite Felt Board/Cylinder) | 粘胶基固化毡 (Rayon Graphite Felt Board/Cylinder) |
|---------------------------------------------|----------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|------------------------------------------------|
| 密度(Volume Density) | g/cm ³ | 20 | 0.30-0.40max | 0.17-0.20max |
| 电阻率 (Specific Resistance) | XY 向 | Ω·mm | 2.0*10 ⁻⁴ | 2.5*10 ⁻⁴ |
| | Z 向 | Ω·mm | 4.0*10 ⁻⁴ | 4.0*10 ⁻⁴ |
| 抗压强度 (Compressive Strength) | XY 向 | Mpa | 3.2 | 1.8 |
| | Z 向 | Mpa | 2.3 | 1.3 |
| 抗弯强度 (Bending Strength) | XY 向 | Mpa | 2.83 | 2.3 |
| | Z 向 | Mpa | 2.15 | 1.8 |
| 热膨胀系数 (Coefficient of Thermal Expansion) | % | 1000-2000 度 | 3.0±0.3 x 10 ⁻⁶ | 3.0±0.3 x 10 ⁻⁶ |
| 碳含量(Carbon Content) | % | | ≥99.5 | ≥99.6 |
| 灰分含量(Ash Content) | PPM | | ≤300PPM | ≤300PPM |
| 比热 (Specific Heat) (平均数) 升华温度 | W/Sec(gK) | 1400 | 1.72 | 1.72 |
| (Sublimation Temperature) | ℃ | | 3600 | 3600 |
| 平均导热系数 (Thermal Conductivity) | W/(mK) | 20 | 真空 0.20 氮气 0.25 | 真空 0.06 氮气 0.06 |
| 规格尺寸(Available Size) | 板(Board): 1600MM*1800MM(Max) 厚度(Thickness): 20-200MM 桶(Cylinder): 最大外径 ≤1600MM(Max) | | | |
| 碳化温度 (Processing Temperature) | ℃ | | ≥2200 | ≥2200 |

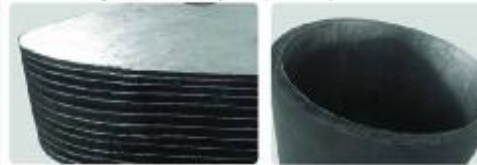
JRYZ-001 硬毡板/筒: 无表面处理
Graphite Felt Board/Cylinder (without surface)



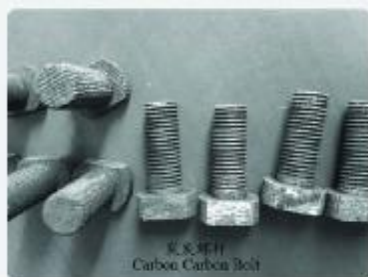
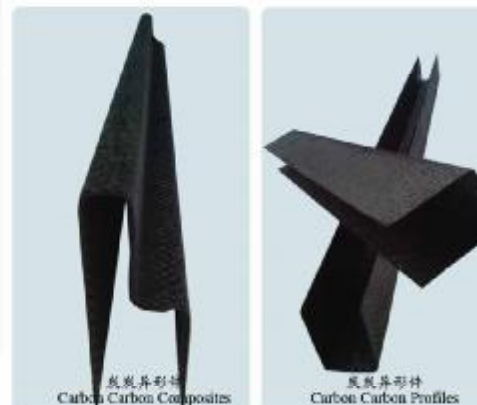
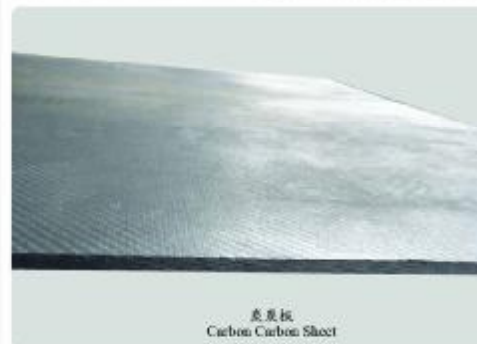
JRYZ-002 硬毡板/筒: 双面贴毡
Graphite Felt Board/Cylinder(with both side foil)



JRYZ-003 硬毡板/筒: 三明治结构
Graphite Felt Board/Cylinder(Sandwich)



JRYZ-004 硬毡板/筒: 贴碳布
Graphite Felt Board/Cylinder(with cfc)



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