

Aluminosilicate 铝硅酸盐

Associated defect 缔合缺陷

Average amplitude 平均振幅

Activation energy 活化能

Absolute temperature 绝对温度

Advanced ceramic electrical insulator materials suitable for more exotic applications 适用于更多（奇异）应用的先进陶瓷绝缘体材料

A positive temperature coefficient of resistance 正的温度电阻系数

A beam of light oscillate perpendicular to the direction of propagation of the beam 一束光在垂直于光束传播方向上振动

A central core of glass with low index of refraction surrounded by a cladding of high index glass 一个低折射率玻璃的核心被一个高折射率的玻璃的覆层包围着

A soda-lime-silicate glass 钠钙硅玻璃

Annealed glass 退火玻璃

A mixture of Periclase graphite and metallic antioxidant 方镁石石墨与金属氧化物的混合物

As a rapid hardening additive to Portland cement and plaster, not as a refractory cement by itself 作为波特兰水泥和灰浆的快硬添加剂而不是所需要的水泥

A carefully graded range of aggregates the required amount of cement and additives to improve workability flow and setting behavior 严格筛分的骨料所需水泥量和添加剂为了提高成型性和流动性和同化性

A pronounced effect on the expansion behavior 对膨胀行为显著影响

A strong dependency of slow crack growth rate with amorphous content of various bricks 缓慢的裂纹生长速率对不定性硅含量的强烈依赖性

A definite chemical composition 确定的化学组成

Be Proportional to 正比于

Ball-Milling powders and hot uniaxial pressing 球磨粉体和热单轴压制

Bisque firing and glaze firing 素烧和釉烧

Barium titanate ceramic capacitor 钛酸钡陶瓷电容器

Basaltic layer 玄武岩质层

Basal cleavage 底面解理

Blue Color Diamonds 蓝色彩钻

Cohesive force 内聚力

Covalent bond 共价键

Conductivity 电导

Coordination number 配位数

Chemical formula 化学式

Charged interstitial site 带电荷的间隙位置

Chemical equation 化学方程式

coprecipitation and supersaturation 共沉淀和过饱和

coefficient of thermal expansion of the glaze 釉的热膨胀系数

crack pit and flaw 破裂，凹坑和裂纹

change the optical characteristics of the material with an applied electric field 根据施加的电场改变材料的光学特性

Crystal ' optically isotropy 晶体的光学上的各向同性

Calcium aluminate glasses 钙铝酸盐玻璃

cathode ray tube 阴极射线管

Cement slurry 水泥浆

Clinker 熟料

Compressive strength 抗压强度

Concrete 混凝土

Cementitious properties 水泥质性质

Cement paste 水泥浆

CapillaryPore 毛细孔

Cerrentingability 胶凝能力

Carbonate containing 含碳酸盐的

Cement-aggregate interface 水泥与骨料的界面

Clay-derived aluminosilicate refractories 粘土类硅铝酸盐耐火材料

Careful control of grain size and bond-matrix components 颗粒尺寸和结合相基体组成的严格控制

Conchoidal fracture 贝壳状断口

Cleavage face 解理面

Comparable hardness 相对硬度

Color change 变色效应

Derivative structure 衍生结构

Defect chemistry 缺陷化学

Distribution of Particle size 颗粒尺寸分布

Dielectric strength 介电强度

Dielectric loss 介电损耗

Destructive expansion 破坏性膨胀

Durability 耐久性

Electron configuration 电子构型（排布）

Effective neutral charge 有效中性电荷

Energy barrier 能垒

Equilibrium position 平衡位置

Evolution of heat 放热

Energy fluctuation 能量起伏

Equilibrium condition 平衡条件

Equivalent interstitial position 相邻间隙位

Effects of texture and constitution on the reversible thermal expansion 结构和组成对耐火粘土可逆热膨胀的影响

Eclogitic 榴辉岩

fireclay products 耐火粘土产品

frame work 骨架

First approximation 一极近似

Frit and coloring oxide 熔块和着色氧化物

Finely ground abrasive 细磨的磨料

Fast ion conductors and solid electrolytes 快离子导体和固体电解质

Fining agent 澄清剂

Glassy and the crystalline grain boundary phases 玻璃和晶体的晶界相

gypsum 石膏

Granitic layer 花岗质层

Grain distribution 粒度分布

hybridization of the atomic orbitals 原子轨道杂化

Halide salts of alkali metal 碱金属卤化物

Hexagonal close-packed structure 六方紧密堆积结构

Host lattice 主晶格

High diffusivity path 高扩散率通道

Hydration kinetics 水化动学

High oriented layers 高取向层

HardeningAt room temperature or above room temperature but below the sintering temperature
在室温或高于室温但低于烧结温度下的硬化

Hackly fracture 参差状断口

isotropic 均质的，各项同性的

Interstitial mechanism with displacement 取代的填隙机理

Interstitial diffusion 间隙扩散

Index of Refractiveand dispersionRefractive index 折射率和色散

Intermediate 中间体

Infrared transmissions 红外透射

Incomplete coordination 不完整的配位

Inert addition 惰性添加剂

Interfacial transition zone 界面过渡区

Indext of Refractories performance 耐火材料性能指标

Inorganic substance 无机物

Layered structure 层状结构

Low temperature modification 低温变体

low absorption glasses free from Inclusions 无夹杂物的低吸收玻璃

Liquidus temperature 液相温度

liquid crystal display panel 液晶显示板

Lining of oil wells 油井内壁

Lamellar twinning planes 薄片状的孪晶面

Momentum 动量

Microscopic of phase 相的显微分析

Mutual solution 互溶体

Moist curing 湿气养护

Mixture that contain aggregate and binders 含有骨料和粘合剂的混合物

measured values of coefficientof the thermal conductivity 热传导系数的测量值

Monitor the growth of a controlled single crack 监控一个可监控的裂纹的生长

Mechanical behavior 机械性能

Network-modifier 网络调整体

Natural bonding or the silicate or aluminosilicate bonds derived from vitrification reaction 自然
键合成由玻璃反应得到的硅酸盐或铝酸盐结合剂

Olivine minerals 橄榄石矿物

Octahedral hole 八面体空穴

Optical Properties 光学性质

Purification procedures 净化工艺

ParticleRearrangement and agglomeration 颗粒的重排和团聚

Primary phase 初晶相

Phase diagram 相图

Periclase crystal containing fine intragranular iron oxide precipitates on firing 在煅烧时含有细小颗粒晶氧化铁沉淀的方镁石晶体

Pulverized fuel ash 粉煤灰

Play a major role in the thermal shock behavior 在热冲击性能中起主要作用

Peridotite diamond 橄榄岩型金刚石

quantum mechanics 量子力学

Ring mechanism 环形机理

Repulsive force 排斥力

relaxation of internal stresses 内应力的弛豫

Reducing condition 还原条件

Rapid hardening cement 快硬水泥

Rapid quenching 快速淬冷

RatardHydration 阻缓水化

Reduction of cement content without lose strength 降低水泥用流量而不失去强度

Residual stones 位石

Solid solution 固溶体

share SiO₄ tetrahedra with one corner 角联结的硅氧四面体

Subatomic particle 亚原子粒子

Spray drying and calcination 喷雾干燥和煅烧

Shrinkage and densification 收缩和致密化

Smooth substrates for thick film and thin film deposition of circuitry 用于厚膜和薄膜电路沉积的光滑基片

Softening range 软化范围

specific surface area 比表面积

Specific heat 比热

thermal expansionCoefficient 热膨胀系数

Standard Specification 标准规范

Sulfate resisting 抗硫酸盐的

Surface pozzolanic reaction 表面凝硬性反应

Silica fume 硅灰

Specific gravity 相对密度

Salt cake 芒硝

Segregation 分离

Three-dimensional models 三维模型

Tetrahedral coordinations 四面体配为体

Thermalactivated jump 热活性跃迁

The annealing and sintering temperature 退火和烧成温度

The driving force for mass transport by solid state process for Ceramic powder 陶瓷粉末通过固态过程传质的驱动力

to prevent warping or slumping during firing 在烧制的过程中防止变形或弯曲

the milled glaze slip be applied to the ceramic by spraying dipping and printing 以喷雾浸泡和印刷的途径将研磨釉浆施加到陶瓷上

the maturing temperature of the body 坯体的烧结温度

The conductivity of ionic conductors increase with an increase in temperature 离子导体的导电率随温度上升而增加

The material placed between the plates of a capacitor to serve as the charge storage medium 放置于电容器两片之间充当电荷存储介质的材料

Tiny chip capacitors with ceramic-metal sandwich structure 具有陶瓷金属三明治结构的微小片状电容器

The Electro-optic effect and the magneto-optical effect 电光效应和磁光效应

Transparency translucency opacity 透明半透明不透明

Transmission of the light beams 光束的传播

To eliminate light scattering pores and inclusions 消除散射光的孔和夹杂物

The constitution of glass 玻璃的组成

Thermal energy 热能量

The rate of cooling 冷却速率

Transparent crystallite Glass 透明微晶玻璃

Thermodynamically metastable 热力学上亚稳定的

Tar bonded burned dolime 焦油粘结的煅烧白云石

thermal conductivity work of fracture nonwetting behavior and slag resistance 导热性断裂功不湿润性和抗溶渣性

The less carcinogenic nature of the fume 's produced on decomposition 分解时产生的烟具有较少的致癌性

The Importance of bond phase in the refractories 耐火材料中结合相的重要性

The binders used to form the bonding phase 用于形成结合相的粘合剂

The complexity of refractory chemical and texture 耐火材料的化学与结构的复杂性

The loose texture of these bricks and the presence of numerous cracks 这些砖松散的结构与大量裂纹的存在

The Electromagnetic Wave Theory 电磁波理论

The Electromagnetic spectrum 电磁波谱

The Cubic or isometric system 立方或等轴晶体系

Unfired pitch and tar bonded magnesia containing addition of graphite 含有石墨添加的未煅烧的含有沥青与焦油粘结

Under crossed polar in a reflected light microscope 在反射光显微镜中在交叉极化光下

Vacancy pair 空位对

Vulnerability to frost damage 易受霜冻破坏的

Vacancy mechanism 空位机理

Van der Waals forces and aggregation of fine powder 范德华力和细小粉体的团聚

Varistors and thermistors 压敏电阻和热敏电阻

vitreous 玻璃态的

Water Softeners 水软化剂

Water to cement ratio 水灰比

X-ray diffraction X 射线衍射