

 **LAPIS[®]
LAZULI**
(Ultramarine Blue)

群青

 **LAPIS[®]
LAZULI** **LAPIS LAZULI PIGMENTS CO.,LTD.**
Address: North Side .North Huanhai Road,West District,
Longkou City,Shandong Province.China.

 **HONGDA GROUP LIMITED**
535 QingShuiQiao Road 11th Floor Office Park Building Ningbo Hi-Tech Park 315040 China (SINCE 1992)
Tel: 0086-574-87907888 Fax: 0086-574-87917070 87265831
Http://www.hongda-chem.com E-mail:chemcolor@hongda-chem.com

 **HONGDA GROUP LIMITED**
洪大集团有限公司

公司简介

洪大集团创始于1992年，一直致力于有机颜料、荧光颜料、钛白粉、炭黑以及各类助剂等的生产和研发。Ultramarine Blue系列群青产品是我司近年新开发高档产品系列，经过市场检验，现已有40%的市场占有率。我司引进了世界先进技术和全自动生产线。其中，研磨及煅烧控制系统已达到国际领先水平。我们的烟尘二氧化硫脱硫装置及污水处理厂，形成一套有效的环保系统。目前工厂年产量10000吨。

公司秉承“高起点、高标准、高水平”的理念，以优质的材料、先进的设备、丰富的行业经验、完善的管理措施创造出优质的产品。

Brief Introduction

HONGDA GROUP was founded in 1992 and we have been committed to the production, research and development of organic pigments, fluorescent pigments, titanium dioxide, carbon black and all kinds of additives. Ultramarine Blue is our recent developed high-level ultramarine products, which has 40% share in the market now. Our company has introduced the world-advanced technology and automatic production lines. The grinding and calcination control system have reached up to the international advanced level. An effective environmental protection system has formed with the use of the dust and sulfur dioxide desulfurization device and sewage treatment plant. The annual capacity of Ultramarine Blue series products can reach up to 10,000tons.

Our company, guided by the philosophy of high point, high standard and high level, will continue to provide first-rate products to our customers, with quality raw materials, advanced facilities, rich experience and sophisticated management.

技术数据 Specification

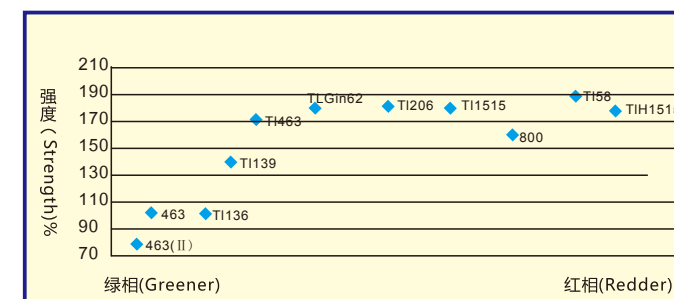
指标名称 Terms	指标参数 Parameters										
	463(II)	463	TI136	TI139	800	TI463	TI206	TI1515	TI58	TLGin62	TIH1515
水溶物% (m/m) Water Soluble Matter (m/m) ≤	1.4	1.0									
游离硫% (m/m) Free Sulfur % (m/m) ≤	0.3	0.05									
挥发物 (105±2°C)% (m/m) Matter Volatile (105±2°C)% (m/m) ≤	1.0										
325目筛余物% (m/m) Residue% (325 Holes mesh) (m/m) ≤	0.3	0.1									
吸油量% (Oil absorption)	25-45										
PH	6.5-7.5										

应用推荐 Product Application

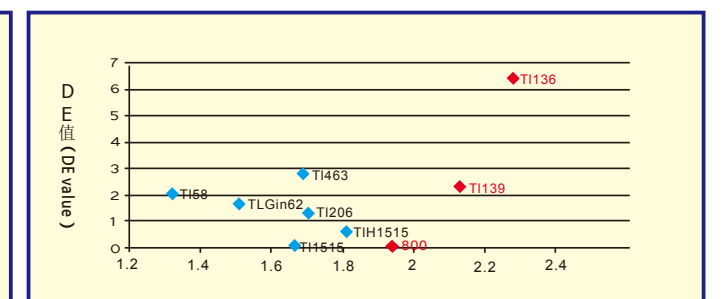
型号 Grade	塑料 Plastic	橡胶 Rubber	油漆 Paint	印刷油墨 Printing Inks	粉末涂料 Powder Coating	纸张涂料 Papercoating	肥皂 清洁剂 Soap Detergents	化妆品 Cosmetics
463(II)	△	△	△	△	△	△	★	△
463	△	△	△	△	★	△	●	△
TI136	●	●	△	△	★	★	△	△
TI139	★	★	★	★	●	●	△	△
800	★	★	★	★	●	●	△	●
TI463	★	★	●	●	△	△	△	△
TI206	★	★	●	●	△	△	△	△
TI1515	★	★	★	★	★	★	△	●
TI58	★	★	★	★	★	★	△	●
TLGin62	★	★	★	★	★	★	△	●
TIH1515	★	★	★	★	★	★	△	●

★ 强烈推荐/High Recommend ● 推荐/Recommend △ 不推荐/Not Recommend

色谱 Chromatogram

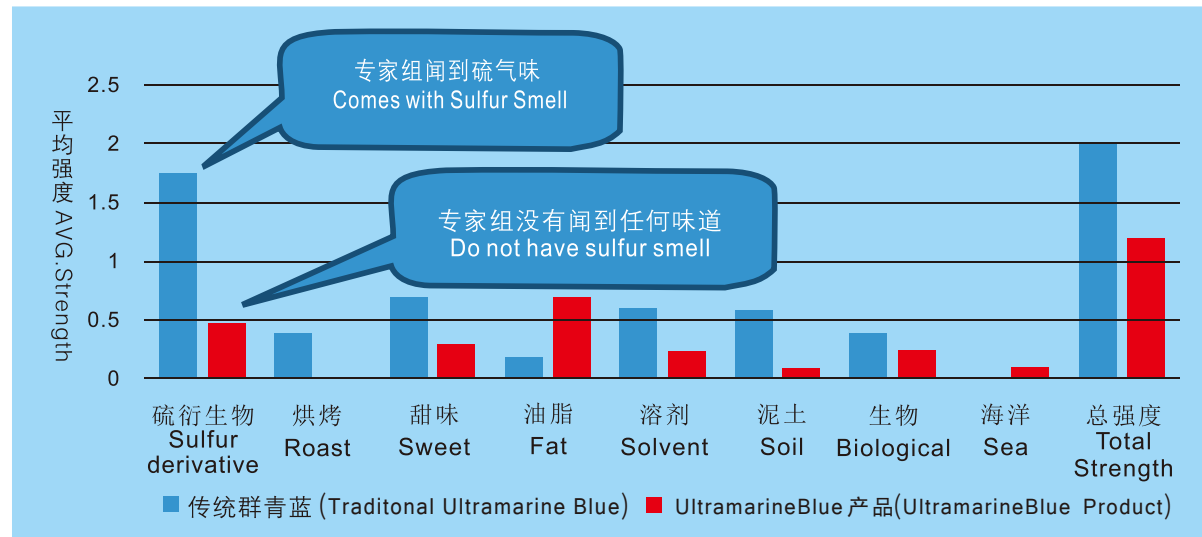


粒径分布 Particle Size



感官评测 Sensory Evaluation

群青蓝100℃加热2小时后，由9个嗅觉专家组蒸汽进行嗅觉评测
After ultramarine blue is under 100℃ for 2 hours, 9 smell specialists evaluate the taste.



国际认证 Certificates Available

FDA	美国食品和药品管理局
AP89-1	欧盟食品接触材料着色剂AP89决议
ROHS	关于限制在电子电器设备中使用某些有害成分的指令
EN71-3	欧盟新玩具指令化学协调标准

性能优势 Performance Advantage

无毒	Non-Toxic
不会发生迁移	Non-Migration
能和所有聚合物兼容	Compatible with all polymers
优秀的耐热性350℃	Excellent heat stability up to 350℃
优秀的耐候性 (4-5级)	Excellent weather fastness (4-5 grade)
耐光性 (7-8级)	Excellent light fastness (7-8 grade)
优秀的耐碱性	Excellent resistance to alkali
保持制品尺寸的稳定性	Maintains dimensional stability of products
不变形，不收缩	No distortion, no shrinkage
易分散	Easily dispersion

群青

颜料索引号：颜料蓝29。

群青颜料是最古老和最鲜艳的蓝色颜料，无毒害、环保，属无机颜料范畴。它用于提白，可消除白色涂料或其它白色颜料中的黄色光，不溶于水、耐碱、耐高温，在大气中对日晒及风雨侵蚀，极其稳定，但不耐酸，遇酸分解变色。它被认为是现有最安全的颜料之一。

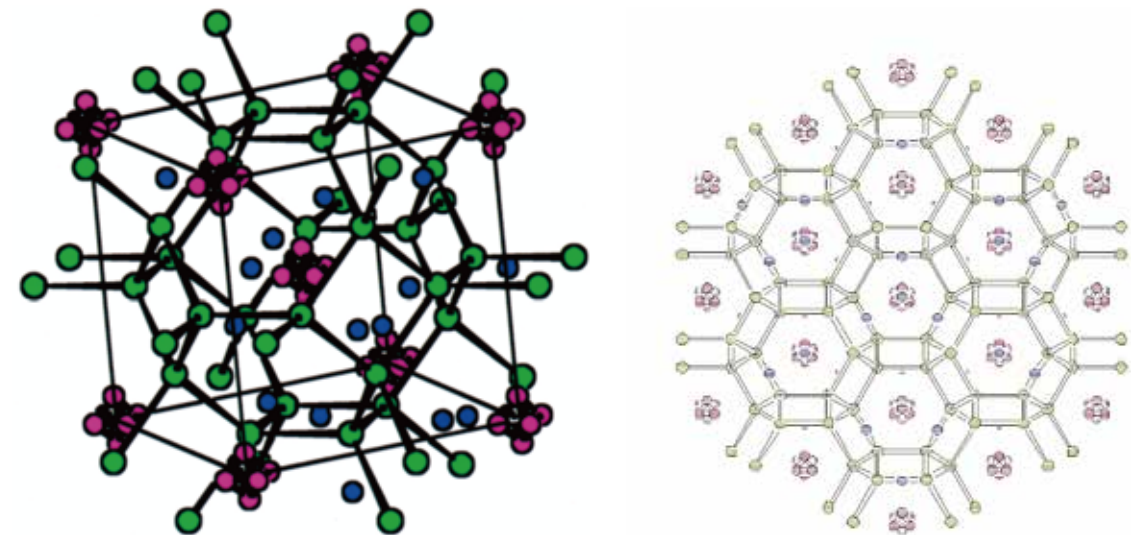
Ultramarine Blue

Colour Index: Pigment Blue 29-77007

CAS No.: [57455-37-5]

Ultramarine blue pigment is the oldest and the most vivid blue pigment. It is non-toxic, environmental friendly and it belongs to inorganic pigment. When it is applied for improving whiteness, it can eliminate the white pigment or the yellow light in it. It is extremely stable, because of its insolubility in water, alkali resistance and anti-corrosion in the atmosphere. But since it is not resistant to acid, it will decompose and discolor in the acidic conditions. Ultramarine blue is regarded as one of the safest pigments by the public.

结构：多硫基团的硅铝钠盐 $\text{Na}_{6,88}(\text{Al}_{5,65}\text{Si}_{6,35})\text{O}_{24}\text{S}_{4,24}$

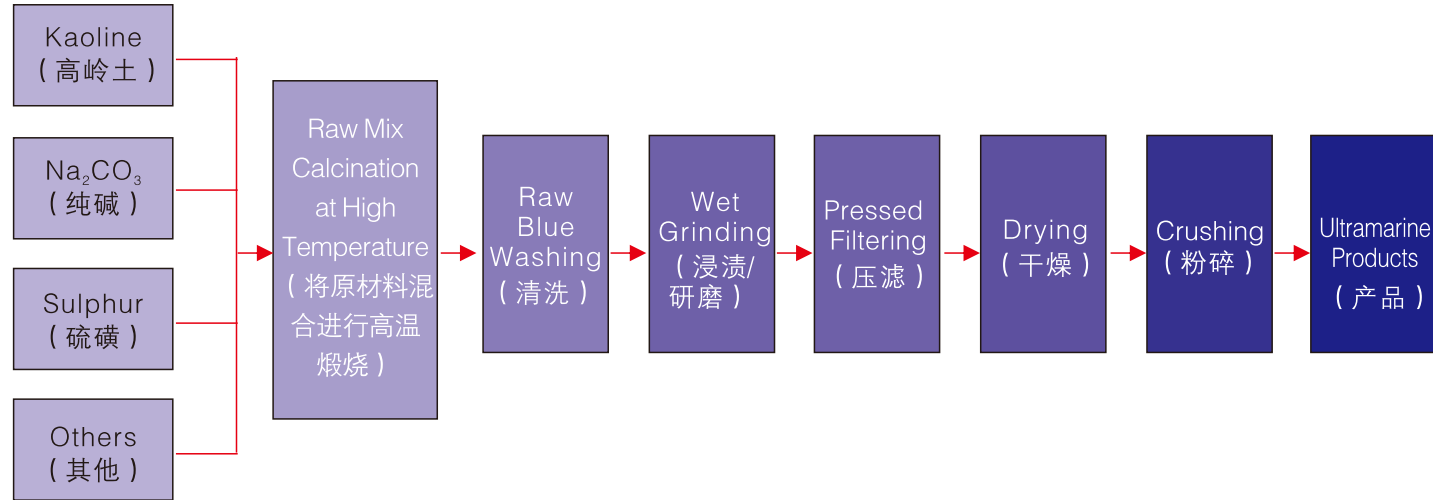


工艺

高温煅烧法将陶土、纯碱、硫磺、木炭、硫酸钠、石英等原料混合。经分装方砖进窑高温煅烧，出料冷却，挑选除未烧成物，经浸渍、研磨、压滤，再经干燥、粉碎，制得群青成品。

Ultramarine Technology

Mix the raw materials, like clay, soda ash, sulfur, charcoal, sodium sulfate, quartz, etc. Put the mixture into the kiln to be calcined at the high-temperature (high-temperature calcination). Select the unburned materials and wash them after the cooling. Then through wet grinding, pressed filtering, and drying, crushing to get ultramarine products.



作用

1. 调白：群青蓝能消除或减少白色制品中的黄色色光。例如纸张，洗涤用品及漂白产品。
2. 着色：用于蓝色油漆、橡胶、塑料、油墨、纸张等行业，以及彩色绘画、建筑物内外粉刷、古建筑物美饰等。
3. 调色：在暗淡的颜色中添加群青可增加其亮度。

Function

1. Whitening: Elimination and reduce of the yellow light in the white products under the function of ultramarine blue, such as paper, bleaching agents and detergents.
2. Coloration: Ultramarine blue can be not only used in the fields of blue paint, rubber, plastic, printing ink and paper, but also in the color painting, interior and exterior whitewashing and architectural decoration etc.
3. Color modulation: Ultramarine blue can improve the brightness of the dark colors.

用途 Application

群青广泛应用于塑料、油墨、橡胶、油漆、纸张、肥皂、清洁剂及化妆品等中。
Ultramarine blue pigments are widely used in plastic, printing inks, rubber, paint paper, soap, detergents and cosmetics etc.

国际先进环保脱硫装置FGD

公司投资5000多万订购的脱硫装置采用国际先进的湿法脱硫技术，能有效减少99.9%的二氧化硫排放，保护环境，并能保证烟道畅顺，从而改善群青生产多年存在的季节性问题。

International advanced desulfurization equipment FGD

Our company invested more than 50 million RMB to bring the desulfurization equipment into our factory, which adopts the international advanced wet desulfurization technology. It can reduce the emission of sulfur dioxide effectively by 99.9% to protect the environment. What's more, the flue will be able to stay smooth, so that the seasonal problem of ultramarine blue production can be solved successfully.

你曾经因为群青颜料的硫磺味道，而不再敢使用它吗？
Do you ever feel afraid to use the ultramarine blue, because of its smell of sulfur?

你的客户里头，有没有指定你的色母粒或复合胶粒产品一定不可以使用群青颜料，目的是：避免最终产品给用户感觉到有气味与味道的问题吗？
Is there any clients, who designates that ultramarine blue cannot be used in your masterbatch or compound rubber products to avoid the smell and the feel of the final products?

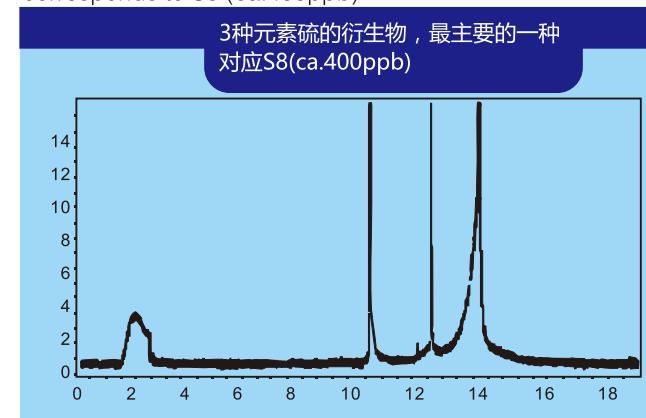
你还在寻找一个格外低气味和低味道、而且安全的群青颜料吗？
Are you still looking for a safe Ultramarine blues with an exceptional light smell and light feel?

那么我们就您最佳的合作伙伴。
So we are your best choice to be an excellent partner.

化学稳定 Chemical Stability

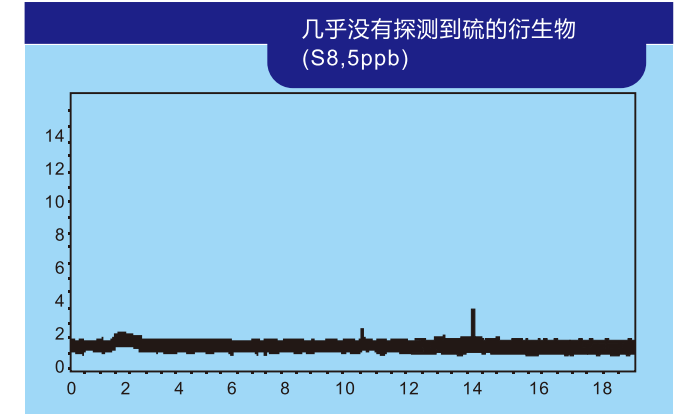
挥发物和半挥发物，1小时70°C
Volatiles and semi-volatiles, an hour and 70°C

Three Kinds Of Derivatives Of Element Sulfur, the main one corresponds to S8 (ca.400ppb)



传统应用于一般用途的群青蓝。
Traditional application of ultramarine blue.

Rare derivatives of sulfur are detected (S8,5ppb)



Ultramarine blue 产品应用于对人的感官（味觉与嗅觉）有影响的塑胶制品中。
Ultramarine blue is used for plastic products which will influence the taste and smell of people.

