



# Texan Stone LLC

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## ABRASIVE BLASTING PERFORMANCE STAR-O-RIGHT (STAUROLITE)

**giving 2.4 mil impression, 200 lbs covering 75 sq ft**

We performed an abrasive blast test on June 9, 2017 at Kinder, LA plant site. The application was a newly constructed product tank (new steel weathered). The product tested was STAR-O-RIGHT (Staurolite). Equipment employed was a Clemco 300 Lb. blast pot, a Doosan 375 CFM Air Compressor, Boride #5 blast nozzle with a 50' blast hose (1-1/4"), 1" blast whip, and Bullard 88 blast hood with a Bullard purifier.

The blast pot was loaded with 200 lbs. of STAR-O-RIGHT (Staurolite). Air pressure at the nozzle was 90-95 PSI. The blaster cleaned the steel substrate until the pot ran completely empty. The surface cleanliness was inspected by a NACE level 2 inspector and determined to be a near white blast SSPC-SP10.



Courtesy: Texan Wholesale Distributor

### STAR-O-RIGHT (Staurolite) Blast

Sieve Size	70-120
Air Pressure At The Nozzle	90-95 PSI
Nozzle Size	Boride #5
Product Used	200 Lbs.
Surface Area Cleaned	81 Square Feet
Consumption Rate	2.47 Lbs. Per Square Foot
Finish	SSPC-SP10 Near White Finish
Surface Profile	2.5 Mils



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STAR-O-RIGHT (Staurolite) is mineral abrasive that contains less than 1% free crystalline silica. This abrasive is dark brown / reddish brown in color with a bulk density of 130 lbs. per cubic foot. The particles are sub-angular, and the hardness is 7 to 7.5 on the mohs hardness scale. This product is commonly used in the industrial painting market, and can be purchased in bulk pneumatic tankers, 4400 lb. bulk bags, and 55 lb. paper sacks.

## STAR-O-RIGHT (Staurolite) Application Chart

Grade	Profile	Typical Applications
70-120 Mesh	1.0-2.5 Mil Profile	Commonly used on aluminum and stainless steel applications, also employed on new steel fabrication, light coating removal, general maintenance abrasive cleaning, mill scale removal, heavy equipment restoration, powder coating surface preparation, blast rooms, and blast cabinets.

STAR-O-RIGHT (Staurolite) is a general purpose abrasive typically used when light to moderate coating removal is needed. The fine grain size and hardness will achieve a uniformed profile at great cleaning speeds, while remaining low in dusting during production. The sub angular grains allow for a cleaner more refined finish with less embedment, usually resulting in a near white to white blast finish. This product can be recycled and is used frequently in blast rooms, and blast cabinets.

STAR-O-RIGHT offers VERY LOW CHLORIDE CONTENT OF 5 PPM AND ITS FREE OF BERYLLIUM.



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## STAR-O-RIGHT

### STAUROLITE CONCENTRATE SPECIFICATION SHEET

#### Chemical and Physical Analysis

<u>Parameters</u>	<u>Typical (%)</u>
Al <sub>2</sub> O <sub>3</sub> + TiO <sub>2</sub>	45 - 51%
SiO <sub>2</sub>	28 - 29%
Quartz	0.5 – 1.0% max.
Respirable Crystalline Silica	Less than 0.01%
Moisture	0.1% - 0.5%
Chloride	6 PPM
Conductivity	70 µS/cm
Color	Dark Brown
Bulk Density	130 lbs./ft <sup>3</sup>
Specific Gravity	3.7 – 3.8
Grain Shape	Sub-angular
Solubility	Insoluble
Hardness	7 – 7.5 Mohs

#### Size Analysis July 2018

<u>Mesh</u>	<u>Microns</u>	<u>Retention (%)</u>	
		<u>Retained</u>	<u>Cumulative</u>
60	250	0.5-1.0	0.5-1
70	210	12-13	12.5-13.5
80	177	42-44	53-56
100	149	28-30	81-85
120	125	12-14	93-97
140	105	2	95 –99
170	88	0.5-1	96-99.5
200	74	0.25	98-100
Pan	-	0.01	100

**Note: Staurolite is a natural product and as such slight variations in the chemical analysis and size distribution should be expected.**

**Comparable to DuPont Starblast XL and Opta Powerblast XC Staurolite.**



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### STAUROLITE NATURAL MINERAL ABRASIVE

Texan Stone LLC is now selling North America's most popular general purpose natural mineral abrasive "Staurolite"



- Effortlessly achieve a near white surface standard (SA2-1/2) and 40-50 micron anchor profile.
- Meets the most stringent salt contamination standards - soluble conductivity below 150  $\mu\text{S}/\text{cm}$ .
- Abrasive consumption of 6 kg/ m2 and productivity of 25 m2/ hour (internal testing conducted by Texan Stone, mill scale steel and 105psi with #8 nozzle).
- Meets all international health standards - low dusting and free silica below 1%.

Meets all international abrasive mineral standards, such as ISO 11126-9 (Staurolite), SSPC AB-1 (natural mineral abrasive - class A), and finally Staurolite is approved by oil companies around the world.

Please contact [Mani@texanstone.com](mailto:Mani@texanstone.com) for more information.

Yours sincerely,

**Texan Stone LLC**

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## BLASTING TEST RESULT STAR-O-RIGHT

Greetings,

We were very pleased with the blasting results – both consumption and speed.

### Amphiblast Dry Blast

50 foot 1 1/4" thin wall hose (2 ply), #8 Standard Schmidt Nozzle, 24"

Nozzle Standoff Distance, Blast Pressure on gage panel of 105psi,

TVII set at 3 1/4 turn from closed

**Note: The test was on tight mill scale plate**

Abrasive	STAR-O-RIGHT
Class of Blast	Near White
Anchor Profile Mil	2
Anchor Profile Micron	38.86
Blast Time	9.5
Sq Ft	42
Sq Meter	3.864
Lb. Abrasive	55
KG	24.95
Lb./Sq ft	1.31
Kg/Sqm	6.46
Sqft/Min	4.42
Sqm/Min	2.46
Sqft/Hr	265.26
Sqm/Hr	24.40

The advertisement we've issued to our entire customer database is attached. We had the local National Lab run through some test work – which essentially mirrored your results. I don't have a scan on my computer – but I'll find it and email it to you.

We'll continue to run blasting demo's for the major contractors over the coming weeks and we'll be in touch.

**Mani Palani**

**President**

**Texan Stone LLC**