



STAR MINE CHEM

# COMPANY PROFILE

## ABOUT US

Star Mine Chem was founded with a clear mission - to be the go-to clay supplier for businesses across various industries. We've worked diligently to earn the trust of countless partners and clients. Today, we proudly stand as a leader in the clay supply industry, known for our commitment to quality and excellence.



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# WE LOOK IN THE FUTURE

Safeguarding the Earth's resources, our mining company is committed to responsible extraction practices, ensuring safety for both our workers and the environment.

# ABOUTUS

Star Mine Chem was founded with a clear mission - to be the go-to clay supplier for businesses across various industries. We've worked diligently to earn the trust of countless partners and clients. Today, we proudly stand as a leader in the clay supply industry, known for our commitment to quality and excellence.

Our success is built on a strong foundation of core values. We believe in providing businesses with reliable clay sources. Our team is composed of dedicated professionals who understand the unique challenges and opportunities faced by businesses in different sectors. Together, we're on a mission to deliver clay solutions that empower your success.

At Star Mine Chem, we know that your business relies on the quality and consistency of the materials you use. That's why we have invested heavily in state-of-the-art clay processing technology, sustainable and responsible clay sourcing. This commitment ensures that when you choose us as your clay supplier, you're choosing reliability, consistency, and a partner that shares your business goals.

We understand that your business is unique, and so are your clay needs. Our team is here to collaborate with you, offering customized solutions and technical expertise to help you achieve your objectives. We invite you to contact us to discuss your clay requirements. Together, we can build a strong and successful future for your business.

Thank you for considering Star mine chem as your trusted clay supplier. We look forward to the opportunity to serve your business and contribute to your continued growth and success.



## VISION

Shaping Tomorrow's Innovations with Exceptional Clay Solutions Today.



## MISSION

Empowering Businesses with Premium Clay Solutions to Fuel Innovation and Growth.



## GOAL

Our goal is to become the most preferred clay supplier for businesses worldwide

# SODA

## Physical Parameters

	Soda Chips	Soda Powder	Soda Powder Super fine	Wash Soda Powder
<b>Physical colour</b>	White	White	Pinkish Buff	Pinkish Buff
<b>Moisture content %</b>	1-3 %	1-3 %	20-24 %	20-24 %
<b>Size</b>	0.1-5 mm	200/300 Mesh	200 mesh	200 mesh

## Chemical parameters

	Soda Chips	Soda Powder	Soda Powder Super fine	Wash Soda Powder
<b>SiO<sub>2</sub></b>	70.3	70.3	75.68	75.31
<b>Al<sub>2</sub>O<sub>3</sub></b>	15.5	16.5	14.31	15.05
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.42	0.42	0.26	0.29
<b>TiO<sub>2</sub></b>	0.21	0.21	0.29	0.30
<b>CaO</b>	0.52	0.52	0.53	0.78
<b>MgO</b>	0.2	0.2	0.32	0.30
<b>K<sub>2</sub>O</b>	1.8	1.5	1.5	1.20
<b>Na<sub>2</sub>O</b>	6.6	9.5	9.1	6.20
<b>LOI</b>	0.5	1.5	0.47	0.56

## Chemical parameters

	Soda Chips	Soda Powder	Soda Powder Super fine	Wash Soda Powder
<b>Fired Shrinkage</b>	12	12	11	12
<b>Firing cycle/ Temp</b>	50/1190 C	50/1210	50/1210	50/1210
<b>L</b>	80	71	85	87
<b>A</b>	0.98	1.98	0.42	0.42
<b>B</b>	7	17	2.36	5.51
<b>Whiteness</b>	-	-	-	67

# POTASH

## Physical Parameters

	Potash Chips	Potash Powder	Super Fine Potash	Wash Potash Powder
<b>Physical colour</b>	Pinkish Buff	White	White	Pinkish Buff
<b>Moisture content %</b>	1-3 %	1-3 %	1-3 %	20-24 %
<b>Size</b>	0.1-5 mm	200 mesh	200 mesh	200 mesh

## Chemical Parameters

	Potash Chips	Potash Powder	Super Fine Potash	Wash Potash Powder
<b>SiO<sub>2</sub></b>	69.3	70.3	69.3	75.68
<b>Al<sub>2</sub>O<sub>3</sub></b>	16.31	14.31	16.31	14.31
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.09	0.09	0.09	0.26
<b>TiO<sub>2</sub></b>	0.02	0.02	0.02	0.29
<b>CaO</b>	0.41	0.41	0.41	0.53
<b>MgO</b>	0.09	0.09	0.09	0.32
<b>K<sub>2</sub>O</b>	5.4	5.4	10.4	3.30
<b>Na<sub>2</sub>O</b>	3.2	3.2	3.05	4.83
<b>LOI</b>	0.5	-	0.5	0.47

## Chemical Parameters

	Potash Chips	Potash Powder	Super Fine Potash	Wash Potash Powder
<b>Fired Shrinkage</b>	11.3	12	9.8	-
<b>Firing cycle/ Temp</b>	50/1210	50/1210	50/1210	50/1210
<b>L</b>	75.3	73.65	82.3	87
<b>A</b>	2.86	0.63	2.4	0.5
<b>B</b>	5.96	4.39	1.5	5.8
<b>Whiteness</b>	50	45		67

# QUARTZ POWDER

## Physical Parameters

	Quartz Powder	Super Fine Quartz
<b>Physical colour</b>	White	White
<b>Moisture content %</b>	1-3 %	1-3 %
<b>Size</b>	200 Mesh	200 / 325 Mesh

## Chemical Parameters

	Quartz Powder	Super Fine Quartz
<b>SiO<sub>2</sub></b>	98.5	98.5
<b>Al<sub>2</sub>O<sub>3</sub></b>	0.5	0.5
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.1	0.1
<b>TiO<sub>2</sub></b>	-	-
<b>CaO</b>	-	-
<b>MgO</b>	-	-
<b>K<sub>2</sub>O</b>	-	-
<b>Na<sub>2</sub>O</b>	-	-
<b>LOI</b>	0.89	0.89

## Chemical Parameters

	Quartz Powder	Super Fine Quartz
<b>Fired Shrinkage %</b>	<1	<1
<b>Firing cycle/ Temp</b>	50/1210	50/1210
<b>L</b>	95.65	98.65
<b>A</b>	0.63	0.63
<b>B</b>	1.89	1.89
<b>Whiteness</b>	85	92

# KEOLIN CLAY

## Physical Parameters

	Keolin Clay	Super China Clay
Physical colour	Creemish	Creemish
Moisture content %	1-3 %	1-3 %
Acid test	ok	Ok
pH value	-	6-7
TDS value	-	400
Drying Shrinkage	-	1
Size	200/325 mesh	Filter cake
Water of plasticity	-	34
Dry MOR kg/cm <sup>2</sup>	-	24

## Chemical Parameters

	Keolin Clay	Super China Clay
SiO <sub>2</sub>	69.3	48.45
Al <sub>2</sub> O <sub>3</sub>	16.31	36.5
Fe <sub>2</sub> O <sub>3</sub>	0.09	0.5
TiO <sub>2</sub>	0.02	0.82
CaO	0.41	0.29
MgO	0.09	0.48
K <sub>2</sub> O	10.4	1.04
Na <sub>2</sub> O	3.05	0.72
LOI	0.5	11.23

## Firing Parameters

	Keolin Clay	Super China Clay
Fired MOR	-	280
Water Absobtion	-	7.5
Fired Shrinkage %	9.8	9
Firing cycle/ Temp	50/1210	50/1210
L	82.3	96
A	2.4	0.4
B	1.5	4.36
Whiteness		92

# BALL CLAY

## Physical Parameters

	Low Plastic Clay	Semi Plastic Clay
Physical colour	Creemish	Creemish
Moisture content %	1-3 %	4-7 %
Acid test	Ok	Ok
pH value	6-7	6-7
TDS value	400	350
Drying Shrinkage	1	1-2
Size	0.1-5 mm	Lumps
Water of plasticity	33	32
Dry MOR kg/cm <sup>2</sup>	24	40

## Chemical Parameters

	Low Plastic Clay	Semi Plastic Clay
SiO <sub>2</sub>	50.45	50.45
Al <sub>2</sub> O <sub>3</sub>	32.5	32.5
Fe <sub>2</sub> O <sub>3</sub>	1.81	1.81
TiO <sub>2</sub>	1.22	1.22
CaO	0.29	0.29
MgO	0.48	0.48
K <sub>2</sub> O	1.04	1.04
Na <sub>2</sub> O	0.72	0.72
LOI	11.23	11.23

## Firing Parameters

	Low Plastic Clay	Semi Plastic Clay
Fired MOR	280	259
Water Absobtion	7.5	6
Fired Shrinkage %	9	10.8
Firing cycle/ Temp	50/1210	50/1210
L	74.5	85
A	1.52	0.87
B	6.36	12.25
Whiteness	48	60



# TALC

## Physical Parameters

	Talc	Talc Powder
<b>Physical colour</b>	White	White
<b>Moisture content %</b>	1-3 %	1-3 %
<b>Acid test</b>	Ok	-
<b>pH value</b>	2-12	2-12
<b>TDS value</b>	Nil	-
<b>Drying Shrinkage</b>	1-2	1-2
<b>Size</b>	Lumps	200 mesh
<b>Water of plasticity</b>	-	-
<b>Dry MOR kg/cm2</b>	-	-

## Chemical Parameters

	Talc	Talc Powder
<b>SiO<sub>2</sub></b>	60.5	60.5
<b>Al<sub>2</sub>O<sub>3</sub></b>	1	1
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.78	0.78
<b>TiO<sub>2</sub></b>	-	-
<b>CaO</b>	0.5	0.5
<b>MgO</b>	29.3	29.3
<b>K<sub>2</sub>O</b>	0.8	0.8
<b>Na<sub>2</sub>O</b>	5.6	5.6
<b>LOI</b>	6.8	6.8

## Firing Parameters

	Talc	Talc Powder
<b>Fired MOR</b>	-	-
<b>Water Absorption</b>	-	-
<b>Fired Shrinkage %</b>	-	-
<b>Firing cycle/ Temp</b>	50/1210	50/1210
<b>L</b>	87	92
<b>A</b>	2.4	1.4
<b>B</b>	11	8
<b>Whiteness</b>	67	92

# WHITE CLAY

## Physical Parameters

	E1 Clay	Super White Clay
Physical colour	White	White
Moisture content %	1-5 %	4-8 %
Acid test	Ok	Ok
pH value	6-7	6
TDS value	430	300
Drying Shrinkage	1-2	2
Size	Lumps	0.1-5 mm
Water of plasticity	31	33
Dry MOR kg/cm <sup>2</sup>	38.61	22.4

## Chemical Parameters

	E1 Clay	Super White Clay
SiO <sub>2</sub>	59.03	48.75
Al <sub>2</sub> O <sub>3</sub>	27.09	33.86
Fe <sub>2</sub> O <sub>3</sub>	1.12	0.33
TiO <sub>2</sub>	1.23	1.92
CaO	0.84	0.34
MgO	0.39	0.35
K <sub>2</sub> O	1.03	2.12
Na <sub>2</sub> O	0.77	0.82
LOI	8.42	13.2

## Firing Parameters

	E1 Clay	Super White Clay
Fired MOR	264.11	147.5
Water Absorption	0.5	10.3
Fired Shrinkage %	12	10.8
Firing cycle/ Temp	50/1190	50/1210
L	77	92.5
A	1.29	0.03
B	15.68	8.07
Whiteness	-	80.9



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