

## Tsuchihashi Pottery stone(sericite) , Rouseki(pyrophyllite), Silica

Example of analysis value and Main Application

Tsuchihashi Mining Co., Ltd.

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Product name		Example of analysis value (%)									Grain size at shipment	Characteristics and Main Application
Type	Grade	SiO2	Al2O3	Fe2O3	TiO2	CaO	MgO	K2O	Na2O	Igloss		
Pottery stone (sericite)	Special Grade	69.20	21.70	0.12	0.09	0.18	0.05	4.93	0.15	3.24	<= 10 mm	Silica is used as the material for Western tableware, luxury tableware, pottery for decoration such as pottery plates. Compared to other pottery stones, silica characteristically has a high K2O content.
	Special Grade N	71.30	20.60	0.11	0.11	0.16	0.04	4.30	0.14	3.08	<= 10 mm	Used as the material for Western tableware, luxury tableware, etc. Unlike the Special Grade, it has a low amount of K2O.
	Grade K1	77.80	15.90	0.13	0.14	0.24	0.03	2.12	0.21	3.14	<= 10 mm	Used as the material for ceramics and insulators, etc. Differs from Grade 1 in that it contains clay minerals such as montmorillonite.
	Grade 1	77.07	15.94	0.18	0.08	0.11	0.05	3.79	0.10	2.68	<= 10 mm	Used as the material for sanitary ware, Western tableware, ceramics, insulators, etc. Our core product and grade with the highest production volume.
	Grade W2	82.77	12.02	0.09	0.12	0.10	0.04	3.03	0.06	1.77	<= 10 mm	Used as the material for ceramics, insulators, tiles, etc.
Rouseki (pyrophyllite)	Grade 1	73.95	21.12	0.10	0.13	0.07	0.01	0.55	0.13	3.94	<= 10 mm	Rouseki suitable for firebrick material (SK29 and 30). Used as the material for the ladles of steel mills and smelters. Other applications include crucible material, heat-resistant materials, etc. It is also added to products used in daily life such as earthenware pots for cooking hotpots, etc.
	Grade 2	77.29	18.23	0.09	0.12	0.01	0.01	0.77	0.10	3.30	Smaller than fist size	Rouseki suitable for clay material used for various purposes from paint to pigments, paper coating agents, fillers, agricultural chemical fillers, etc.
	Grade 3	82.89	14.27	0.09	0.10	0.11	0.01	0.78	0.20	2.71	Smaller than fist size	Mainly shipped to local clay factories. In the ore state, Hunter whiteness is around 80.
Silica	Grade 1	98.66	0.37	0.09	0.08	0.05	Tr	0.07	0.03	0.24	Smaller than fist size <= 10 mm	Silica with more than 98% SiO and less than 0.5% Igloss. White in color and its porous state makes it easy to crush compared to general silica. Used as the material for agricultural chemical carriers, construction board, heat-resistant material powder, etc.

\*Our product was mined all in Tsuchihashi mine.

\*We ship our stones at various dignity, grain size to the needs of the customer.