

## Raw Materials for Ceramic Tiles

Code	ASI – 10	ASI - 20
	Illitic Clay	Illitic Clay
<b>Chemical Analysis</b>		
SiO <sub>2</sub>	68 ± 2	67 ± 2
Al <sub>2</sub> O <sub>3</sub>	12.5 ± 1	13 ± 0.5
Fe <sub>2</sub> O <sub>3</sub>	1.9 - 2	<2.2
TiO <sub>2</sub>	0.3	0.4
CaO	2.8 - 3	3
MgO	0.9 - 1.1	0.8
K <sub>2</sub> O	3 - 3.4	3.2 - 3.8
Na <sub>2</sub> O	1 - 1.3	1 - 1.3
L.O.I	5 - 6	6 ± 0.5
<b>Physical Properties</b>		
Green Strength(Kg/cm <sup>2</sup> )	9 -11	10 - 11
Dry Strength(Kg/cm <sup>2</sup> )	35 - 40	40 - 45
<b>Firing at 1125°C/46 min</b>		
% Firing shrinkage	1 – 1.2	1.2 -1.4
Water absorption	12 – 13	11 - 13
Firing strength (Kg/cm <sup>2</sup> )	> 200	> 200
Mine location	Qazvin Bouein Zahra area	
Packing	Bulk/Big bag	
Sizing	< 25 cm / < 15 mm	



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