

## Measures to influence the quality of the slag

# Blast Furnace Slag

Process stage <sup>1)</sup>	Measures to influence the quality	Influenced properties
Raw material preparation	selection, arrangement and pre-treatment of raw materials related to the chemical comp. of the blast furnace slag	chemical composition e.g. CaO, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, alkalis
Melting process	selection of suitable process conditions (blast furnace temp., minimization of carbon rate, gas flow, etc ...)	temperature, composition of the products
Heat treatment	different cooling rates a) quick: - blowing - granulation - pelletizing	glass content, structure, porosity
	b) moderate - foaming	bulk density, strength, porosity
	c) slow - air-cooling	strength, porosity, resistance to polishing, grain size
Processing	crushing sieving grading milling	grain size, shape, grain size distribution

<sup>1)</sup> All process stages are subjected to a continuous production control

