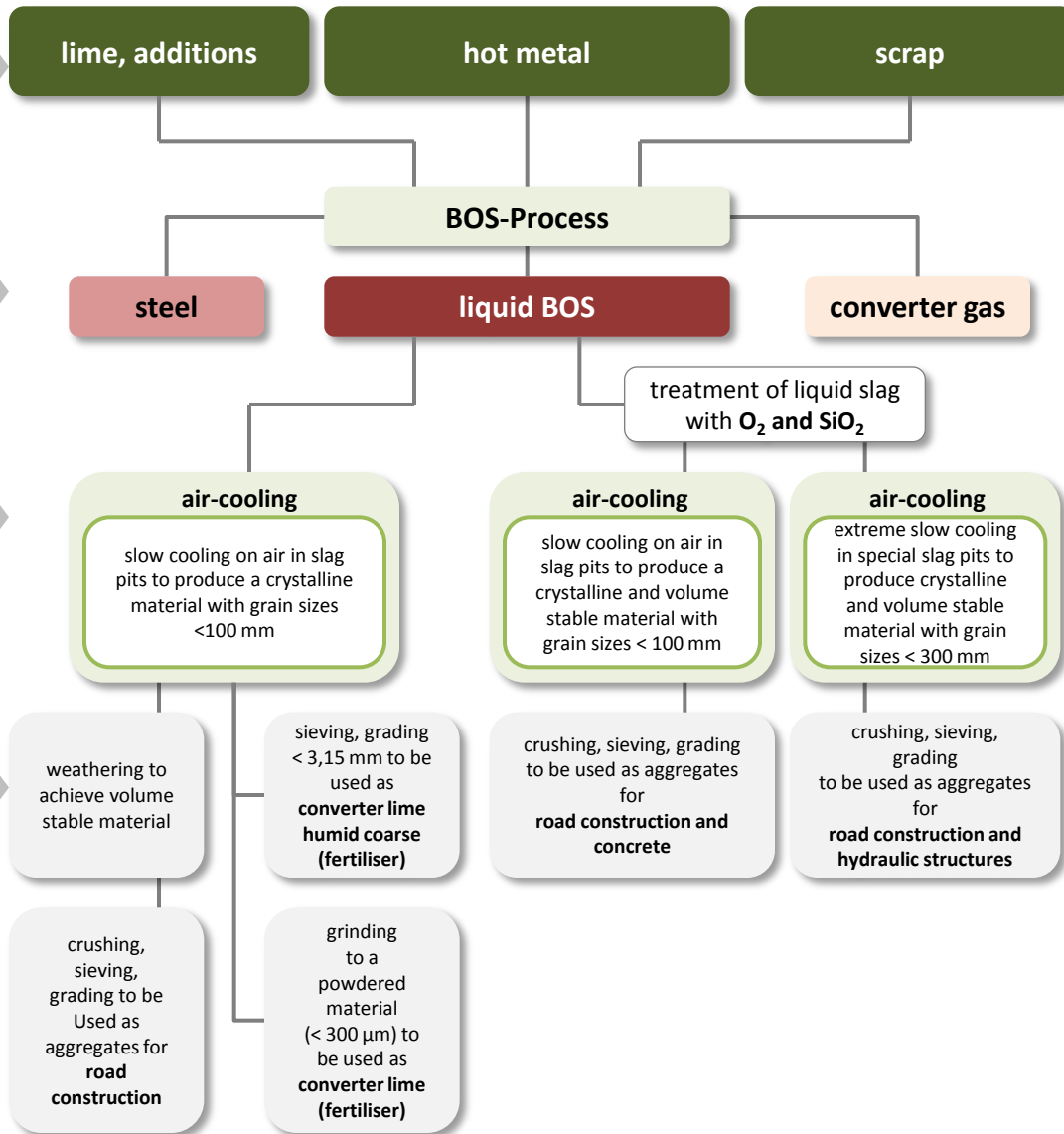


Steel Slag – Basic Oxygen Furnace Slag (BOS)

Measures to influence the quality of the slag

Process stage ¹⁾	Measures to influence the quality	Influenced properties
Raw material preparation	selection, arrangement and pre-treatment of raw materials relating to the chemical comp. of the BOS	chemical composition e.g. CaO, SiO ₂ , P ₂ O ₅ , FeO _x , MgO, trace elements
Melting process	selection of appropriate process conditions (O ₂ rate, lime and scrap rate)	temperature, composition of Products (e.g. FeO, CaO _{free}) volume stability
Heat treatment	controlled cooling	structure, porosity, strength, grain size distribution
Processing	crushing, sieving, grading, grinding	grain size, shape, grain size distribution



1) All process stages are subjected to a continuous production control like sampling, physical/chemical analysis and testing