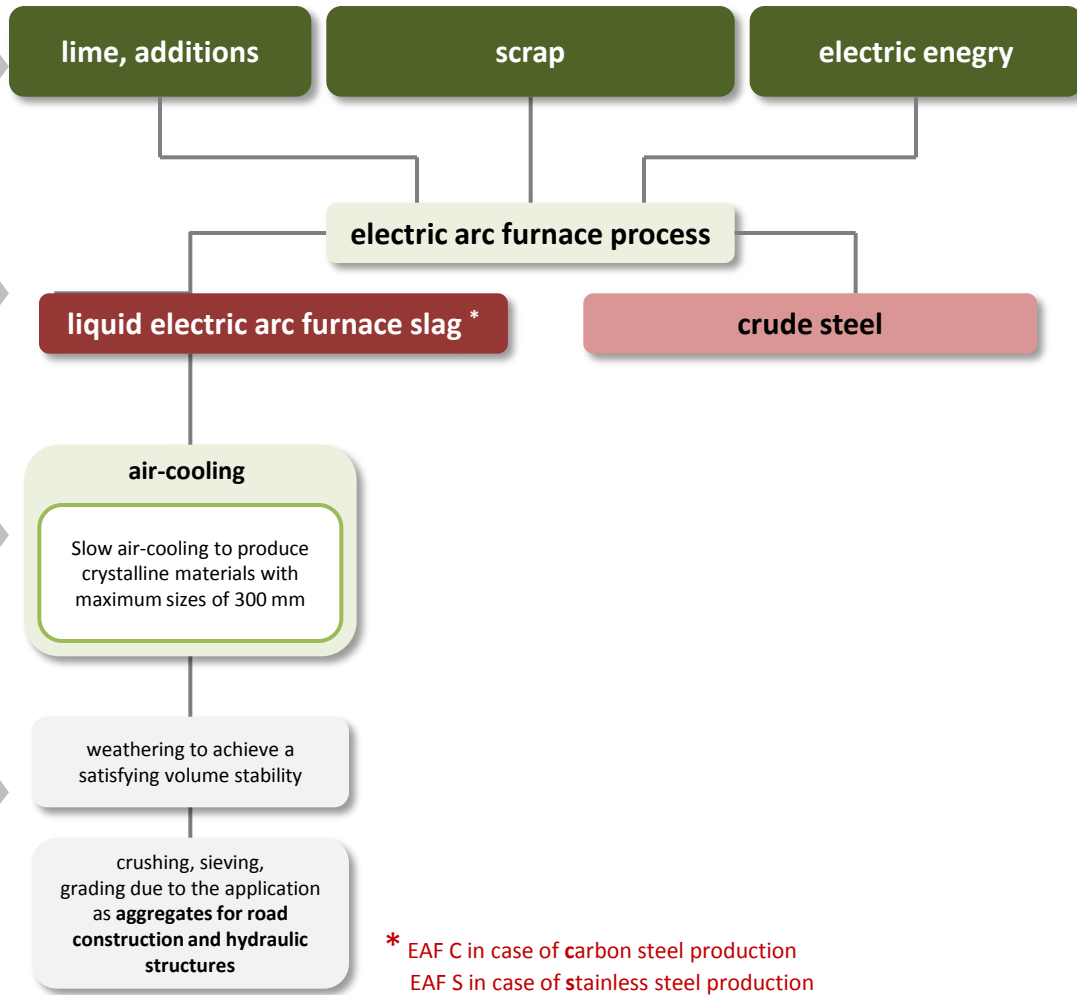


Steel Slag – Electric Arc Furnace Slag

Measures to influence the quality of slags

| Process stage ¹⁾ | Measures to influence the quality | Influenced properties |
|-----------------------------|--|--|
| Raw material preparing | selection, arrangement and pre-treatment of raw materials relating to the chemical comp. of the EAF slag | 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 , lime addition and quality of scrap), reduction step before tapping | temperature, composition of products (e.g. FeO, MgO _{free}) volume stability |
| Heat treatment | slow cooling | structure, porosity, strength, grain size distribution |
| Processing | crushing, sieving, grading | grain size, shape, grain size distribution |



* EAF C in case of carbon steel production
EAF S in case of stainless steel production

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