

POLISET

Polyurethane cold set binders for ferrous and non ferrous foundries

VESUVIUS

POLISSET

Polyurethane cold set binders

POLISSET cold setting urethane binders deliver higher productivity combined with precise dimensional accuracy. They are suitable for moulds and cores in both ferrous and non ferrous applications.

POLISSET binders

Traditionally, urethane resins were based on aromatic solvents, which gave high fume levels on mixing and acrid smoke release during the casting process. Recent developments have seen the introduction of very low odour systems which have opened new markets for this process. Excellent sand flowability, high strengths and a rapid through curing mechanism are features of all the urethane POLISSET binders.

Benefits

- + Reduced odour and emissions
- + High strength development
- + Excellent mould and core breakdown
- + High productivity levels
- + Low addition rates
- + Excellent surface finish
- + Increased sand reclamation
- + Improved dimensional accuracy

POLISSET AL

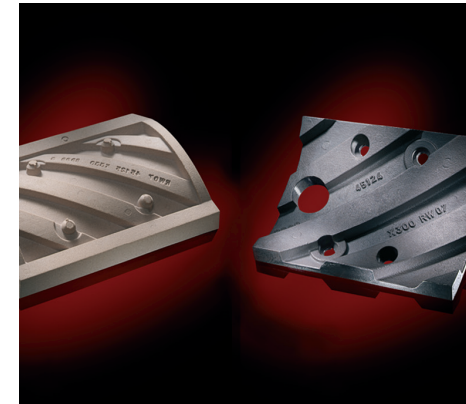
Especially developed for aluminium foundries, POLISSET AL is a two component binder based on a range of very low odour products designed to give very high cold strengths, rapid strength development and exceptional mould and core breakdown. Using non-aromatic solvents and phenol and formaldehyde-reduced binders they give almost no odour on mixing and very low odour and smoke levels during and after casting. High sand reclamation rates up to 70% can be achieved and even higher rates are possible with thermal processes. Typical applications are for the production of high integrity automotive castings.

POLISSET E

A range of cold set binders designed to give high strengths, high productivity and minimal odour levels on mixing and low smoke evolution on casting. A three component phenolic binder process giving a range of set times between 2 and 30 minutes. Excellent hot strength properties are achieved resulting in low erosion defects and excellent dimensional accuracy. High sand reclamation rates up to 90% can be achieved with dry attrition and even higher rates are possible with thermal techniques. Suitable for non ferrous, iron and steel foundry applications.



Determination
of core hardness



Core assembly
for a water
jet powered
boat application



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