

Aqueous Release Agents for High-Pressure Die Casting

- wax-free -

Only with wax-free release agents you have guaranteed no build-up of residue on die frame, always clean vents, no soiling of machine, no plugging of nozzles. Castings which are produced with the products listed hereunder, can be painted, powder coated, welded and/or glued. Viscosity of products allows minimal dosing of undiluted release agent

Product	Die Temperature	Applications
Isolat® Enviro 911* Isolat® Enviro 1011*	160° C to max. 400° C next generation	Universal release agent for a wide spectrum of castings also for large and heavy parts
Isolat® Enviro Mix 1 Isolat® Enviro 1012	160° C to max. 400° C next generation	special release agent that counteracts shrinkage; suitable for old, cracked moulds
Isolat® 913* Isolat® 1013*	160° C to 350° C next generation	release agent for a wide range of cast parts
Isolat® TT 77	130° C to 350° C	release agent with good adhesion properties; forms spontaneously a release film on the mould, even at low temperatures “known for its glueing property”
Isolat® 4007* GF synthetic product	160° C to 400° C	speciality product for thin walled structural parts of magnesium and aluminium with extra bright casting surfaces

* These products are available in 4 different concentrations:

L = low concentrate, e.g. Isolat® Enviro 911 L

N = normal concentrate, e.g. Isolat® Enviro 911 N

H = high concentrate, e.g. Isolat® Enviro 911 H

HH = very high concentrate, e.g. Isolat® Enviro 911 HH

Pigment-based Release Agents

Product	Cast Metal	Application
Graphitex® 37 B aqueous graphite dispersion	SSM (aluminium) “Poral” (aluminium)	„dry release agent“, for reduction of gas porosity
Isolat® KA 4 white, ready-for-use release agent	“Poral” SSM Squeeze Casting (aluminium)	thermally insulating product (does not build-up)
Isolat® KA 5	“Poral” SSM Squeeze Casting (aluminium)	similar to Isolat® KA 4 but with even higher insulating properties
Graphitex® 13	aluminium	graphite coating for gravity and low-pressure die casting
Graphitex® CR 3401	copper alloys	aqueous pressure die casting release agent