

REFINAL™

FUSED REFINING FLUXES

The **Refinal**™ range of fully fused magnesium chloride – potassium chloride refining agents has been developed for efficient removal of alkali metals such as Na, Ca and Li and oxide and boride inclusions from molten aluminium. **Refinal**™ provides an environmentally safe alternative to chlorine fluxing reducing emissions by over 96%. **Refinal**™ is produced only from virgin raw materials then manufactured using continuous thermal fusion.

Advanced continuous manufacturing

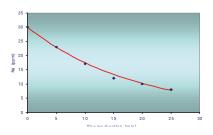




Product Benefits

- · Consistent high quality manufacture to European standards
- 1-3mm Granulometry ideal for use with RFI Rotary flux injector
- Low melting point eutectic product with sharp melting point (<480°C)
- Reduces sodium to ≥ 1ppm
- Eliminates edge cracking when rolling Mg containing ingots
- Increases extrusion speed and die life when extruding profiles
- · Reduces breaks in continuous casting
- Reduces incidence of pin holes black line defects and tears in thin sheet products

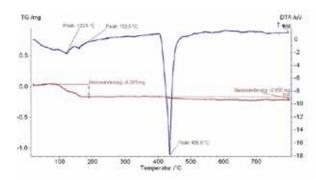
RFI Rotary Flux injector and typical sodium removal curve





Refinal[™] compositions are based on a binary eutectic and provide a precise low melting point.

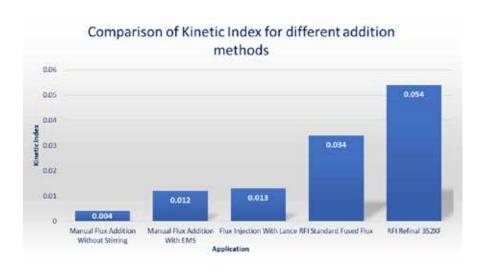
RFI Rotary Flux injector and typical sodium removal curve



Extensive research has lead to the development of enhanced performance products. **Refinal™ 352XF** and **Refinal™ 565XF**, with higher kinetic index resulting in improved sodium removal efficiency. Measurement of kinetic index; Refinal™ 352XF has a kinetic index of -0.054 compared to -0.034 for standard compositions



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RFI Rotary Flux injector and typical sodium removal curve

- Reduce consumption by at least 10%
- Shorten treatment times
- Cope with higher incoming sodium levels
- · Achieve lower final sodium levels
- · Achieve lower inclusion levels

The **Refinal™** 500 range is based on a ternary eutectic composition including sodium chloride to protect against future increases in the cost of potash.

Product	REFINAL™ 350		REFINAL™ 352XF		REFINAL™ 565XF	
Description:	Standard, fused granular refining agent		High efficiency, fused granular refining agent		High efficiency economical, fused granular refining agent	
Composition %:	MgCl ₂	35 – 45	MgCl ₂	35 – 45	MgCl ₂	40 – 50
	KCI	53 – 64	KCI	53 – 64	KCI	36 – 43
			F-	1 – 2	NaCl	9 – 18
					F-	0.0 – 1.1
Application rate:	0.25 – 1 kg/Mt		0.2 - 0.8 kg/Mt		0.2 - 0.8 kg/Mt	
Grain size:	Application by Rotary Flux Injector					
	Grain Size: 0.6 − 3.0 mm					
	Application by bagged addition					
	Grain Size: 0.6 – 3.0 mm Application by Salt ACD					
	Grain Size: 850µm					
	2.2					
Density:	2.17 g/cm²					
Bulk weight:	1.0 kg/l					
Re-solidifying temp:	400 - 450 °C					
Packaging:	100 x 5kg, bags packed per 500kg heavy duty cardboard box, 2 boxes per 1100mm x 1100mm pallet.					
Shipping:	EXW, FOB, CFR, CIF, DAP, LCL, FCL					