



Magnesium Elektron

SERVICE & INNOVATION IN MAGNESIUM

MELRASAL[®] Fluxes

Datasheet : 498

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MELRASAL® Fluxes

Melrasal Fluxes have been designed for the treatment of all stages of the melting and refining of magnesium base alloys. Each flux has been developed for a different purpose and this sheet shows the fluxes available and the intended use and the colour identification of each.

All Melrasal Fluxes are in crystalline powder form which are hygroscopic and, consequently, should be stored in warm, dry conditions. Should the flux be used for intermittent production, the air-tight lid must be firmly replaced after use since moisture pick-up will impair the performance.

MELRASAL UE FLUX

An all purpose melting, refining and cover flux for use with magnesium base aluminium or other non-zirconium containing alloy melts for sand, permanent mould, investment or pressure die casting.

MELRASAL Z FLUX

Formulated for melting down of all magnesium base aluminium alloys. It is primarily intended for large melts and where scrap with a large surface to volume ratio is added to the charge. Under these conditions, the more fluid nature of Z flux gives better protection during melting compared with Melrasal UE. After melting down with Z flux, all subsequent processing is carried out, using Melrasal E flux.

MELRASAL E

A flux formulated for refining and covering melts previously treated with Melrasal Z flux.

MELRASAL TE FLUX

Used for melting, refining and covering for the production of sand, permanent mould or investment castings in alloys: MSR, QE22 and EQ21.

MELRASAL HE FLUX

Recommended for melting, refining and covering alloys for sand, permanent mould or investment castings in alloys: RZ5, ZRE1, Z5Z, ZE63, K1A.

MELRASAL HZ FLUX

Recommended for use in melting magnesium zirconium alloy scrap to avoid the dry melting conditions which can arise when using Melrasal HE or Melrasal TE flux alone. It is particularly useful in melting scrap which is excessively contaminated with oxide inclusions or foundry scrap containing screens. Melrasal HZ flux is only used until the melting of the charge is complete after which further fluxing should be continued with Melrasal HE or Melrasal TE according to the alloy.

Packaging

Packed in polythene lined fibre drums containing either 50 or 250kg of flux. TE flux is packed in steel drums containing either 200 or 300kg.

Colour Identification

Melrasal fluxes are colour coded and drums marked with a coloured diamond.

Melrasal UE	White	Melrasal TE	Green
Melrasal Z	Pink	Melrasal HE	Blue
Melrasal E	Grey	Melrasal HZ	Orange



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