

Aluminum Die Casting

Smoke-Free Fluxing for Safer Die Casting




Industry Expertise

Resource One's extensive experience in die casting lubrication and metalworking lubrication spans more than two decades - ensuring that lubrication issues are thoroughly investigated and properly addressed. Speak with our lubrication experts for consultation on your machine lubrication and maintenance now.

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Challenge

An aluminum high-pressure die casting company producing automotive and motorcycle parts encountered emission of thick smoke during the fluxing of molten aluminum. This exposed their workers to health hazards from smoke inhalation, and poor visibility in their workstation.

Our Solutions

Lubrication experts from Resource One recommended the use of **granular flux** in place of the conventional powder flux to address the issue. A unique property of the granular flux, **Lubrikote GR 111**, produces less smoke during covering and drossing-off, and is less likely to be airborne. In addition, less flux is needed for the same volume of molten aluminum resulting in a more efficient process.

Impact

The company was able to improve worker safety due to significantly less smoke emitted during fluxing and less fine airborne particles in the work area. Additionally, wasted aluminum found in dross was reduced from 0.2% to only 0.06%, translating to higher metal recovery. Flux consumption was also reduced by 40% upon switching from conventional powder flux to granular flux.

Product Information

Lubrikote GR 111 is a covering and drossing-off flux recommended for all Aluminum alloys. The product exhibits:

- Effective cover to reduce gas pick-up
- Drosses with low content of metallic inclusions