

Rubber Mould Release Agent: Issue, Impacts, and Solutions

In the rubber manufacturing process, mould release agents are vital for ensuring the smooth removal of rubber products from moulds. However, improper application or selection of release agents can lead to numerous issues that affect product quality and production efficiency.

Improper Release Agent

Impact: Using an unsuitable release agent can result in poor adhesion, causing surface defects, incomplete curing, and difficulties in demoulding. This can compromise the quality of the final product and increase production costs due to rework and waste.

Solution: It is crucial to select the appropriate release agent based on the specific material and process requirements. Conducting thorough testing and consulting technical data sheets can aid in making the right choice.

Over-Spraying Release Agent

Impact: Excessive application of release agents can cause parts of the agent to mix with the rubber compound, leading to delamination and cracking of the product. This not only affects the structural integrity of the product but also results in increased material waste and production downtime.

Solution: Apply release agents in light, frequent coats rather than a single heavy application. Focus on critical areas where release is necessary and avoid spraying excessive amounts. Regular training for operators on proper application techniques can also help mitigate this issue.

Minimal or No Spray

Impact: Insufficient or no application of release agent can cause the rubber to stick to the mould, resulting in damaged products and increased wear on the mould. This can lead to higher maintenance costs and reduced mould lifespan.

Solution: Ensure that a sufficient amount of release agent is applied to all necessary areas of the mould. Use a consistent spraying technique and maintain a regular schedule for application. Implementing quality control checks can help monitor and adjust the amount of release agent used.

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Contamination by Grease and Impurities

Impact: Contamination of the rubber mould by grease and other impurities can lead to poor surface finish, adhesion issues, and reduced product quality. This can also cause defects in the final product, such as surface blemishes and structural weaknesses.

Solution: Regularly clean and maintain moulds to prevent contamination. Use clean, lint-free cloths and appropriate cleaning agents to remove any grease or impurities. Implementing a strict cleaning protocol and conducting routine inspections can help maintain mould cleanliness and ensure high-quality products.

Conclusion

By ensuring the use of proper release agents, selecting the appropriate spraying techniques, and reducing die contamination, manufacturers can improve product quality, reduce waste, and enhance production efficiency and the lifespan of dies.

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