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(57) Abstract :

An aluminium alloy material for reducing wear with the addition of yttrium element. The material comprises magnesium 1.23-2.61%, iron 0.23-0.57%, zinc 0.21-0.36%, manganese 0.42-0.92%, cerium 0.38-0.62%, yttrium 0.23-0.40%, 0.63-0.94% titanium, 0.23-0.41% cobalt, scandium 0.12-0.25% and silicon 5.6-7.8%, and remaining is aluminium and a small amount of unavoidable impurity, wherein the cerium and yttrium are added to improve the wearability of the aluminium alloy material, and the addition of cobalt and scandium help to improve the toughness of aluminium alloy materials, overcome casting crack, improve the quality of aluminium alloy, improve the cost rate of aluminium-alloy products.

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