TEST SUMMARY

The effect of UMAX-V on heat transfer

Hereunder the conclusion of research on UMAX-V. The complete test is in our possession.

The experimental results are summarized as follows:

5.1. The difference in boiling behaviour

The addition of small amount of UMAX-V makes the boiling behaviour quite different from that of pure water. For water, bubble action is seen to be extremely chaotic, with extensive coalescence during the rise. Bubbles formed in UMAX-V solutions were very much smaller than those in water and the surface became covered with them faster. The boiling excess temperature becomes smaller and the vapour bubbles are formed more easily.

5.2. Effect of UMAX-V on heat transfer

The boiling curves of UMAX-V are quite different from the boiling curve of pure water. Experimental results demonstrate that the heat transfer coefficient of the boiling process can be enhanced considerably by the addition of a small amount of UMAX-V.