KES

Metal Corrosion Test of Cutting Oil

KES T – L187

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Additional Rule

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1. Scope of application

This standard shall regulate evaluation method of metal corrosion of water-soluble or water-insoluble cutting oil.

2. Significance

In this test, by discussing influence on material of oil tube lifetime of cutting tool can be extended, and by inspecting influence on cutting component, cutting part may be managed.

3. Device and instrument

(1) Examiner : Vessel that contains test sample

(2) Sand paper

4. Chemical reagent

(1) Diethyl ether

(2) Ethyl alcohol

5. Test sample

(1) Dimension : Length is about 76 mm, area is about 12 mm, and thickness is less than 2 mm.

(2) Material : Use copper plate C1100P, C1201P, C1220P in KSM S201 (Copper and copper alloy plate), 1st type cold strip steel plate in KDS 3512 (Cold strip steel plate and steel rod), and aluminum plate 1050 CA105P in KSD6701 (Aluminum and aluminum alloy plate and rod).

However, material of cutting oil line and cut part shall be determined under agreement

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