

KES

Low Temperature Impact of Cooling Fan Blade

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1. Scope of Application

This standard specifies the low temperature fragility test of thermal modulate cooling fan blade which is installed to cool down the engine.

2. Test Equipment and Tools

- (1) Cold chamber (Should be able to maintain the temperature at $-25\text{ }^{\circ}\text{C}$)
- (2) Jig for fixing Cooling fan
- (3) Rigid ball (1kg)

3. Test Method

- (1) Fix a cooling fan for test at jig.
- (2) Adjust the impact point of rigid ball to the weakest point of cooling fan blade.
Refer the selection of the weakest point to the figure1.
- (3) Leave it at the temperature of $-20 \pm 3\text{ }^{\circ}\text{C}$ for 2 hours. (In the case of the export car to the country the minimum air temperature of which is below $-20\text{ }^{\circ}\text{C}$, leave it at that temperature for 2 hours.)
- (4) Drop the rigid ball to the impact point of the cooling fan blade at the temperature.
- (5) Do not carry out impact test more than once to the same cooling fan blade.

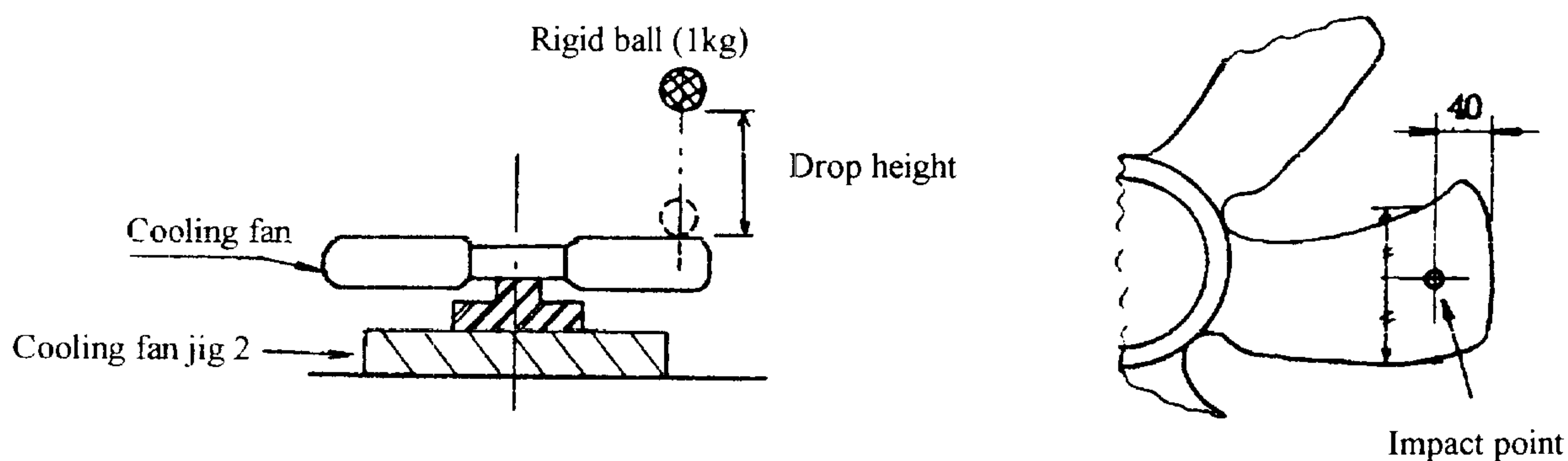


Figure1

4. Data Processing Method

Record the free drop height at which the badness among test items occurs.