



INSTRUCTIONS FOR USE - ENGLISH

MURAKAMI

Metallographic reagent

Potassium hydroxide, potassium ferricyanide (III)

RECOMMENDATIONS:
Steels and ferrous alloys
Tungsten alloys

- Highlighting of carbides: to blacken carbides, use from 80°C to boiling under extractor hood.
- Phase Σ (sigma) weakly revealed after 3 min. at room temperature.

Safety Precautions:

- Always wear appropriate protective equipment: safety goggles, chemical-resistant gloves, and a lab coat.
- Work under a fume hood to prevent inhalation of any fumes.
- Handle the chemicals with care to prevent skin contact and accidental ingestion.
- Consult the Safety Data Sheet (SDS) for detailed safety information before handling the etchant.

Procedure:

1. Place a clean 250 ml beaker under a fume hood.
2. Pour 100 ml of distilled water (H₂O) into the beaker.
3. While stirring continuously with a glass rod, gradually add 20 g of the etchant powder (containing potassium hydroxide and potassium ferricyanide (III)).
4. Stir the solution until the powder is fully dissolved.
5. The etchant is now ready for use.

Dispose of any unused solution following local regulations for hazardous waste.

Always refer to the SDS for additional precautions and safe handling guidelines.