

SMART CUT (SOLUBLE CUTTING OIL)

PRODUCT DESCRIPTION

ATLAS Smart Cut is a Water-soluble cutting oil, a crucial component in metalworking processes. It combines with water for effective cooling, lubrication, and chip removal. Additives enhance its performance, ensuring extended tool life, improved surface finish, and reduced heat generation during machining. This versatile oil is essential for a wide range of metalworking applications.

FEATURES AND BENIFITS

- Forms stable emulsion.
- Keep work piece and tool, cool and clean.
- Antifoam and antirust.
- Improves tool life and gives a better surface finish.
- Resistance to bacterial growth.

SMART CUT is suitable for wide range of machining for low to medium alloy steels, aluminum, brass, copper and copper alloys.

RECOMMENDED DOSAGE

SMART CUT is recommended in an oil-to-water ratio of 1:10 to 1:50 or as per application required. Generally richer emulsion is used for more difficult jobs.

TYPICAL CHARACTERISTICS

Properties	Units	Methods	Values
Appearance	-	-	Clear
Relative Density @15 °C	g/ml	ASTM 1298	0.867
Kinematics Viscosity @ 40 °C	C.St	ASTM D445	28.5
Flash Point	°C	ASTM D92	210
Emulsion Stability Test	-	IP-263	Pass
Corrosion of Cast Iron	-	IP-125	Pass
Rust Prevention Characteristic	-	IP-287	Pass
PH of 5 vol %, in water	pH	-	9.1

The typical characteristics mentioned represent mean values.

SAFETY, HEALTH & ENVIRONMENT

Atlas Smart Cut unlikely to have any significant health or safety hazard when properly used in recommended application and follow good standards of personal hygiene.

Avoid prolong contact with skin. Use impermeable gloves while handling oil. After skin contact, wash with soap and water