



For total industrial lubricant solutions



# Neat Cutting Oil

## CUTVEL N 12

Proprietary Grade

### Product Data Sheet

**PRODUCT DESCRIPTION:** CUTVEL N 12 contains active and non-active sulphur, fatty oil and chlorinated additives to give better surface finish and longer life of cutting tools over a wide range of operating temperatures by providing an excellent lubricating film which resists cutting stresses.

**APPLICATION:** CUTVEL N 12 is recommended for severe machining operations of gear cutting, broaching and threading of alloys and stainless steels, where low viscosity oil is required.

The product is NOT recommended for use on non-ferrous metals.

**PERFORMANCE LEVEL:** Proprietary Grade

### Typical Properties

CHARACTERISTICS	CUTVEL N 12
Kinematic Viscosity @40°C,cSt	11-13
Flash Point,COC,°C, Min.	150
Copper strip corrosion @ 100°C for 3 Hrs, Min	4
Sap Value, mg KOH/gm, Min	5



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# Neat Cutting Oil

## CUTVEL N 102

IS: 3065 -1985(RA 2002) TYPE 1 GRADE II

### Product Data Sheet

**PRODUCT DESCRIPTION:** CUTVEL N 102 is blended from highly refined base stocks with fatty oils and chlorinated additives for a wide range of machining operations with good surface finish without discolouration of the work piece. It minimizes the tools from excessive wear during use.

**APPLICATION:** CUTVEL N 102 is recommended for multipurpose machining operations of ferrous and non-ferrous metals including different grinding and milling operations.

**PERFORMANCE LEVEL:** Meets IS: 3065-1985 (RA 2002), TYPE 1, Grade II

### Typical Properties

CHARACTERISTICS	CUTVEL N 102
Kinematic Viscosity @40°C,cSt	20-24
Flash Point,COC,°C, Min.	160
Copper strip corrosion at 100°C for 3 Hrs, Max.	1
Sap Value, mg KOH/gm	9-11



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# Neat Cutting Oil

## CUTVEL N 203

IS:3065-1985 (RA 2002) TYPE 2 GRADE III

### Product Data Sheet

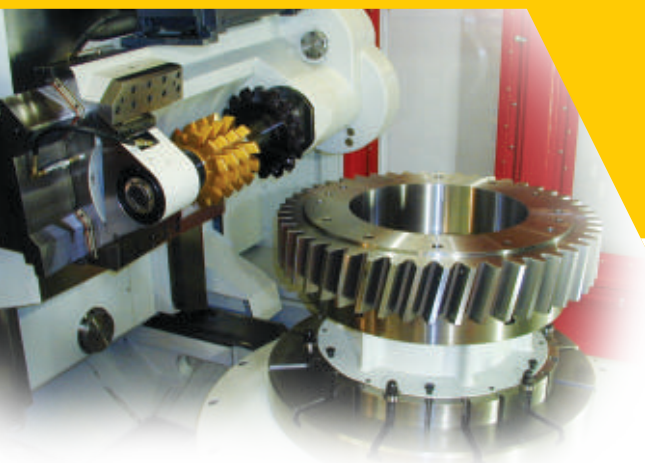
**PRODUCT DESCRIPTION:** CUTVEL N 203 contains highly refined base oils with inactive sulphurised fatty oil. It can be used for a wide range of machining operations with good surface finish without discolouration of the work piece. It minimizes the tools from excessive wear during use.

**APPLICATION:** CUTVEL N 203 is recommended for multipurpose machining operations of ferrous and non-ferrous metals where severity of machining is not encountered.

**PERFORMANCE LEVEL:** Meets IS: 3065-1985 (RA 2002), TYPE 2, Grade III

### Typical Properties

CHARACTERISTICS	CUTVEL N 203
Kinematic Viscosity @40°C,cSt	32-36
Flash Point,COC,°C, Min.	160
Copper strip corrosion at 100°C for 3 Hrs, Max.	1
Sap Value, mg KOH/gm	9-11



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# Neat Cutting Oil

## CUTVEL N 15

GRADE: IS: 3065-1985 (RA 2002), TYPE 3, Grade I

### Product Data Sheet

**PRODUCT DESCRIPTION:** CUTVEL N 15 contains active and non-active sulphur, fatty oil and chlorinated additives to give better surface finish and longer life of cutting tools over a wide range of operating temperatures by providing an excellent lubricating film which resists cutting stresses.

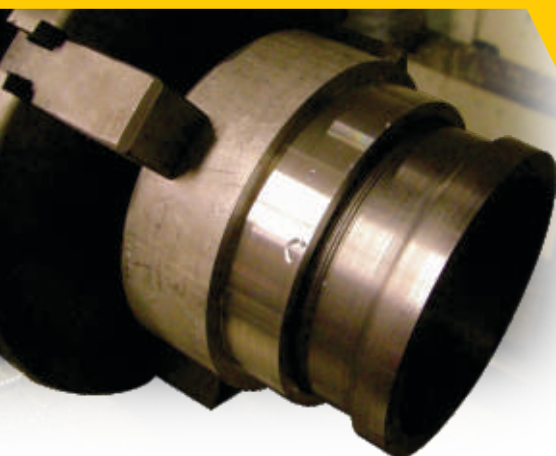
**APPLICATION:** CUTVEL N 15 is recommended for severe machining operations of gear cutting, broaching and threading of alloys and stainless steels, where moderate viscosity oil is required.

The product is NOT recommended for use on non-ferrous metals.

**PERFORMANCE LEVEL:** CUTVEL N 15 meets the requirement of IS: 3065-1985 (RA 2002), TYPE 3, Grade I

### Typical Properties

CHARACTERISTICS	CUTVEL N 15
Kinematic Viscosity @40°C,cSt	15-20
Flash Point,COC,°C, Min.	160
Copper strip corrosion @ 100°C for 3 Hrs, Min.	4
Sap Value, mg KOH/gm, Min	5



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# Neat Cutting Oil

## CUTVEL N 302

IS: 3065 -1985 (RA 2002) TYPE 3 GRADE II

### Product Data Sheet

**PRODUCT DESCRIPTION:** CUTVEL N 302 contains active and non-active sulphur, fatty oil and chlorinated additives to give better surface finish and longer life of cutting tools over a wide range of operating temperatures by providing excellent lubricating film which resists cutting stresses.

**APPLICATION:** CUTVEL N 302 is recommended for machining operations of gear cutting, broaching and threading of alloys and stainless steels, where moderate viscosity oil is required.

The product is NOT recommended for use on non-ferrous metals.

**PERFORMANCE LEVEL:** Meets IS: 3065-1985 (RA 2002), TYPE 3, Grade II

### Typical Properties

CHARACTERISTICS	CUTVEL N 302
Kinematic Viscosity @40°C,cSt	34-40
Flash Point,COC,°C, Min.	160
Copper strip corrosion at 100°C for 3 Hrs, Min.	4
Sap Value, mg KOH/gm, Min	10



## PRODUCT DATA SHEET

**PRODUCT: CUTVEL N 100**

**GRADE:** Proprietary

**PRODUCT DESCRIPTION:** CUTVEL N 100 contains fatty oil, Ester and chlorinated additives to give better surface finish and longer life of cutting tools over a wide range of operating temperatures by providing an excellent lubricating film which resists cutting stresses.

**APPLICATION:** CUTVEL N 100 is recommended for machining operations of gear cutting, broaching and threading of high tensile steel and for less severe operations of alloys and stainless steels.

### **TYPICAL PROPERTIES**

CHARACTERISTICS	CUTVEL N 100
Kinematic Viscosity at 40°C, cSt	10-14
Flash Point, COC, °C,	170
Copper Strip Corrosion for 3 Hrs. at 100°C.	1B

These are typical figures and do not constitute a specification .In pursuit of continuous improvement, these figures may be changed without notice at the sole discretion of Nandan Petrochem Ltd. Rev 00-01/02/2017