

SAP Material Master Numbers
(Stock Numbers)
See Below

DOTD Spec. 423-002
Rev. 5/7/2010
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**LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
SPECIFICATIONS**

BLADE, POWER SAW, DIAMOND

GENERAL:

Blade, power saw, diamond, for cutting asphalt or cured concrete. The saw blade furnished under this specification shall be the circular type with diamond segments bonded to the periphery of a heat treated steel core.

SAP Material Master Number 11465 Asphalt (Stock Number 22-23-1011)

SAP Material Master Number 11466 Concrete (Stock Number 22-23-1014)

BLADE DIMENSIONS:

The blade diameter shall be 14 inches with a 1 inch arbor hole, 7/16 inch guide pin hole and a center to center measurement from arbor hole to guide hole of 1-1/8 inches. The diamond segment width shall be within the range of 0.312 – 0.375 inches. The diamond segment height shall be within the range of 0.375 – 0.394 inches.

DIAMOND SEGMENT MATERIAL REQUIREMENTS:

The diamond segment shall have a minimum 35 percent concentration of diamonds based on 100 percent concentration equaling 72 carats per cubic inch. The diamonds used in the segments shall be virgin and synthetic and shall be in the size range of 30 to 50 mesh (U. S. sieve size). The diamond matrix shall be brazed to the core for wet operation. Blades intended for asphalt cutting shall have a hard bond with a minimum cut rating of 20,000 inch-feet. Blades intended for concrete cutting shall have a soft bond with a minimum cut rating of 6,000 inch-feet.

CUTTING SPEED:

The cutting speed of the blade, operated on a 60 to 65 HP self-propelled saw at 2,400 RPM, shall be a minimum of 4 inch-feet/minute for concrete, 8 inch-feet/minute for asphalt.

MARKING:

Identification and unique serial number shall be machine stamped on each blade.

PACKING:

All blades shall be individually packaged to enclose and protect contents from damage and permit shipment by common carrier at the lowest applicable rate.

RESPONSIBILITY FOR TESTING:

The supplier is responsible for the performance of all inspections and test requirements necessary to ensure compliance with the provisions of this specification. The State of Louisiana is entitled to further determine specification conformance or quality standards of workmanship, material and construction techniques.

WARRANTY:

Manufacturer's standard warranty shall apply.

All bidders should furnish descriptive literature with his bid. If descriptive literature is not furnished, bid may not be considered for award.