

SAWING WIRE, METHOD AND EQUIPMENT FOR MANUFACTURING SUCH A
WIRE, AND USE

Abstract

The invention relates to a monofilament metal sawing wire (10) for a wire saw, which consists of a metal wire having a diameter D and comprising helical serrations (104) with an amplitude A and wavelength B , characterized in that the wavelength B is less than 10,000 times the product of the amplitude and the diameter ($A \times D$), and the amplitude A is between 0.010 and 0.400 times the diameter D , the values being expressed in millimeters. Equipment and a method for manufacturing such a wire involve causing the wire to vibrate between two guides (201, 202) while passing the wire between the guides. Such a wire can be used for sawing a block of hard material.

(Fig. 1)