

ABSTRACT

RUBBER COMPOUNDING OIL, AROMATIC COMPOUND-CONTAINING BASE OIL, AND METHODS FOR PRODUCING SAME

A method for producing an aromatic compound-containing base oil comprising:

5 a first solvent extraction step in which a vacuum distillation fraction of atmospheric distillation residue oil from crude oil is contacted with a polar solvent in a first extraction column having a bottom temperature of 50-70 °C and a top temperature of 80 to 100 °C , to obtain a first raffinate and a first extract; and

10 a second solvent extraction step in which the first raffinate is contacted with a polar solvent in a second extraction column having a bottom temperature and top temperature that are each at least 10°C higher than those of the first extraction column, to obtain a second raffinate and a second extract having a 15°C density of 0.94 g/cm³ or higher and a total aromatic content of 30 mass% or greater,

15 wherein the aromatic compound-containing base oil includes at least a portion of the second extract and the second raffinate or a refined oil product thereof, and has a total aromatic content of 30 mass% or greater.

FIGURE 1