Claims

1. An oil-extended rubber comprising:

a vulcanizable rubber component; and

a coconut oil with a free fatty acid content of 0.05% by mass or more,

wherein the content of the coconut oil is ranging from 21.5 to 37.5 part per hundred rubber (phr).

2. The oil-extended rubber according to claim 1, wherein an iodine value of the coconut oil is 10 or more.

3. The oil-extended rubber according to claim 1, wherein the free fatty acid content falls in a range of 2 to 18% by mass.

4. The oil-extended rubber according to claim 1, wherein the content of the coconut oil is ranging from 0.1 to 80 part per hundred rubber (phr).

5. The oil-extended rubber according to claim 1, wherein the content of the coconut oil is ranging from 10 to 40 part per hundred rubber (phr).

6. The oil-extended rubber according to claim 1, wherein the vulcanizable rubber component is a polybutadiene.

7. The oil-extended rubber according to claim 1, wherein the vulcanizable rubber component is a 1,4-cis-polybutadiene.

8. A rubber composition comprising the oil-extended rubber according to any of the claims 1 to 9, and further comprising:

a diene-based rubber other than the vulcanizable rubber; and

a rubber reinforcing agent.

9. The rubber composition according to claim 10, further comprising a rubber process oil, wherein the content of the coconut oil is ranging from 21.5 to 37.5 part per hundred rubber (phr).

10. The rubber composition according to claim 10, further comprising a coconut oil.

11. The rubber composition according to any of claims 10 to 12, wherein the rubber reinforcing agent comprises silica.

12. A rubber composition comprising a vulcanizable rubber component, a coconut oil with a free fatty acid content of 0.05% by mass or more, a diene-based rubber other than the vulcanizable rubber, and a rubber reinforcing agent, wherein the content of the coconut oil is ranging from 21.5 to 37.5 part per hundred rubber (phr).

13. A tire comprising the rubber composition according to any one of the claims 10 to 14.

14. A shoe sole comprising the rubber composition according to any one of the claims 10 to 14.

15. A method for manufacturing an oil-extended rubber, the method comprising a step of:

mixing a vulcanizable rubber component and a coconut oil with a free fatty acid content of 0.05% by mass or more.

16. The method according to claim 17, wherein the mixing step is performed without adding solvents.

17. The method according to claim 17, further comprising a step of:

dissolving the vulcanizable rubber component in a solvent prior to performing the mixing step; and

using the dissolved vulcanizable rubber component in the mixing step.