

# VISUAL CHARACTER OF THE SUGI FROM TOKYO CLASSIFIED INTO THE GROWTH AREA AND GRADE

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## ABSTRACT:

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The increase in hay fever is regarded as questionable in Japan in recent years under the influence of the Sugi (*Cryptomeria japonica* D. Don) afforested in large quantities after the war. Tokyo, 40% of forests are plantation forest, such as Sugi and Hinoki (*C. obtuse* Endl.), and the maintenance is hurried for the increase in the felling neglect forest and accompanying the profitability fall of forestry in recent years. Therefore, the felling plan of a large-scale Sugi is advancing in Tokyo. In this research, the usage of the Sugi from Tokyo is considered and it aims at proposing the use development especially for furniture. In advancing research, at first the feature according to production place of Sugi has been grasped. The character of Sugi is changed

by the climate, or influences of the afforestation method, as like the annual rings size of a Sugi was wide in a warm district, and it was precise in a chill district, the use in which the characteristic of source was employed efficiently is used. Although there is generally much use to building materials or fittings, except a famous source, the area which the demand of Sugi makes little increase, and does not maintain the afforested balance of the quantity of production is conspicuous. Next, about visual character of the Sugi from Tokyo, such as a difference in the knots, color, and annual rings size, was clarified according to the grade. The Sugi from Tokyo has the visual character that color and luster are good and annual rings size is comparatively precise. The main uses were building materials and especially a pillar until now. However, the use as beam material is increasing especially nowadays. This is based on the motion which is going to utilize the soft wood from Tokyo more, although the Douglas fir and LVL were used for beam material having grown up to be thickness which the Sugi from Tokyo can use for beam material, and until now. Moreover, it is determined to manufacture the furniture which utilized the Sugi from Tokyo, and to introduce into a metropolitan elementary school etc. By it, the furniture use of the Sugi from Tokyo is also going to be started. In order to utilize as furniture which is the purpose of this research, it is necessary to investigate the visual character of color, the annual ring size, grain, knots, in detail. If it can be used properly according to the quality and parts of the Sugi from Tokyo, effective use of a Sugi is expectable.

## REFERENCES:

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