

**SELECTING THE BEST PARTICLEBOARD PRODUCTS
WITH RESPECT TO CRITERIA INTENSITIES, CASE OF
THE STUDY:
IRANIAN PARTICLEBOARD**

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ABSTRACT

The aim of research is selecting best particleboard products in Iran. Physical and mechanical specifications of the products are different together. Quality and quantity of Iranian particleboard products are growing successfully. Obtainment of higher market share will need to acknowledge preferable products with respect to criteria and their intensities. Particleboard criteria includes, moisture percent; density; thickness swelling percent; water absorption percent and bending strength, also each one of the criteria has three levels of intensities, high (H), medium (M) and low (L). There are five major products includes A; B; C; D and E which are produced in the factories. First stage the criteria and their intensities have been evaluated by applying AHP and Expert Choice 2000. Second stage five major particleboard products have been ranked with respect to results of previous section. The final results indicated that D product has the highest priority. Third stage, with respect to results of sensitivity analysis, moisture percent and bending strength are more sensitive than other criteria.

Keywords: alternative, particleboard, priority, sensitivity analysis, AHP

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