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A Fire Intensity of Different Type of Material in Process Industry

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Abstract: *This paper is focused on different type of combustible material`s internal energy called calorific value, and their fire intensity when the material burn. Fire hazard is play major role for increase the accident, loss of life and property in the processing industry as well as storage area of the industry. The reason for high amount of fire in industry dwellings is due to the reasons that such buildings were not subjected to fire prevention legislation or continuing managerial supervision, till construction of multi-storeyed buildings had started. The total amount of fuel present in a building is never constant as everyday same or the other additions are being made and waste materials are being thrown away. But a reasonable accurate fire load of the building can always be calculated or is otherwise known from experience. The first load in building depends upon the size of the building but fire load density i.e. the total fire load per square metre of the floor area of building as a whole is dependent on the occupancy type of building if optimally equipped. In this paper included the fire load of combustible materials available in industry. The fire load of combustible materials is the amount of heat in kilo-calorie which is liberated per square meter of floor area of a compartment by the combustion of the contents of the building and any combustible parts of the building itself. The amount of heat is used as the basis for grading of occupancies. The fire load is determined by multiplying the weight of all combustible materials by their calorific values and dividing the figure by the floor area under consideration.*

Keywords: Combustible Material, Calorific Value, Fire Intensity, Fire Prevention, Fire Load.

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