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CHAPTER 1

1.0 PRODUCT DESCRIPTION

1.1 INTRODUCTION

After initial observation towards the vehicles tyres, the team had chosen a product that we believe can contribute to the vehicle safety factor. Our product is SubTyre. According to PLUS Highway Malaysia, there are 613 road accidents in the year of 2016 which were happened on the expressway. The main reason of the accidents can be caused by the tyre explosion. Tyre will explode when hot air takes up more space than cold air. When the air inside a tyre gets too hot, it becomes bigger and causes the tyre to explode. Therefore, this product is suitable for the car owner to use in order to reduce and avoid any accidents on the road.

1.2 PURPOSE OF DEVELOPMENT

SubTyre can be described as an airbag for the car tyre. SubTyre is a type of vehicle safety device and occupant restraint system. This product is designed to inflate extremely rapidly then quickly deflate during the explosion or impact with a surface or a rapid sudden deceleration.

The purpose of the SubTyre is to prevent the tyre from explode that may lead to the road accidents. This is because when the tyre explode, the driver of the car cannot control the condition of the vehicle due to the main component of the car has been damaged. Thus, the existence of this product will help to slow down the number of accidents which caused by exploding tyre.

1.3 PRODUCT CONCEPT

- To reduce the possibility of the road accidents.
- To provide restraint during tyre explosion which will prevent any impact or impact-caused injuries between the occupants and the interior of the car.
- To avoid the car from skidding on the road which can caused by tyre explosion.