

Exploring Alternative Materials for Cost-efficiency

BACKGROUND AND CHALLENGE

Exploration of alternate materials, with minimum impact on cost within the same functionality requirements

SCOPE OF WORK

- Alternate material to optimize cost and weight retaining the functionality

SOLUTION

- Envisaged scope for alternate material
- Optimization of metal composition, thickness, and weight based on the volume and variants
- Alternate material (metal to non-metal) was proposed and was found to be the best fit from all aspects like cost, material, manufacturing, functionality, and structural requirement

IMPACT

- The design resulted in weight and cost savings, while retaining functionality

