

SUMMARY OF FORMULATION LOGIC FOR AATRIZINVENTOR SOLUTION

Work Paper

If you applied summary or abbreviated descriptions, have them available to review this logic.

Objective of the Innovation Challenge

Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties

Evaluated Object S1

RECTANGULAR FUEL TANK - Type: Stationary

Object S2 interacting with S1

CONTAINED FUEL - Type: Moving

Physical Variable or Characteristic

Capacity to hold fuel

the undesirable

With Less Capacity to hold fuel there is undesirable effects, then there is More difficulty to :

Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties

the desirable

With More Capacity to hold fuel there is desirable effect, then there is More ease to :

Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties

TRIZ Innovation Parameters Evaluated

TRIZ Innovation Parameters	Undesirable Effect (UDE)/ Desirable Effect (DE)	Evaluate
4. Length of stationary object	<p>RECTANGULAR FUEL TANK : There is More difficulty to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is More Height of fuel stored</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
8. Volume of stationary object	<p>RECTANGULAR FUEL TANK : There is More difficulty to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is More Stored fuel volume</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
12. Shape / composition / configuration	<p>RECTANGULAR FUEL TANK : There is More difficulty to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is Less Appropriate form for storing fuel</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
14. Strength / Resistance	<p>RECTANGULAR FUEL TANK : There is More difficulty to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is Less Strength to resist fuel pressure</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
35. Adaptability or versatility	<p>RECTANGULAR FUEL TANK : There is More difficulty to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is Less Adaptability to variability of stored fuel</p> <p>Effect : undesirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No
32. Ease of achieving desired outcome	<p>RECTANGULAR FUEL TANK : There is More ease to Improve design of large-volume rectangular tank for fuel storage affected by resistance difficulties because there is More Ease of achieving desired fuel storage</p> <p>Effect : desirable</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No