Rubber Compound Cost

How-to guide: what the workbook does, how to use it and what every number means. mfgcalcs.com

Rubber Compound Cost

Price every rubber compound per kg from its phr recipe, and cost every mixed batch per usable kg with the mixer setup and mixing yield, against your target.

For: Rubber compounders, mixing room managers, estimators and cost accountants in tyre, seal, hose and moulded goods plants.

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Quick start

1. On Setup, type your plant and currency, list your ingredients with their type and price per kg, and your compounds with their target cost per usable kg.
2. On Recipes, give each compound's ingredients a row with their phr.
3. On Batches, give each mixed batch a row: compound, batch weight, mixing yield and setup charge. Fix anything the Check columns name.
4. Open the Dashboard: what each compound's price is made of, and every batch's cost per usable kg against target.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant, currency, the near band, the ingredients with their type and price, and the compounds with their target cost.
Recipes	One row per compound and ingredient: phr in; the phr-weighted cost out.
Batches	One row per mixed batch: compound, weight, yield and setup in; cost per usable kg and status out.
Dashboard	What each compound's price per kg is made of, and every batch's cost per usable kg against target.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Cost weight (recipe line)	phr x price per kg.	currency
Total phr	The compound's phr, added up.	phr
Blended price	Sum of cost weights / total phr.	currency per kg

Quantity	How it is calculated	Units
Material cost	Batch weight x blended price.	currency
Total cost	Material cost + setup charge.	currency
Usable kg	Batch weight x mixing yield.	kg
Cost per usable kg	Total cost / usable kg.	currency per kg
Status	On target at or below the compound's target cost; Near target up to the near band over it; Above target beyond.	-

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Kilbride Polymers, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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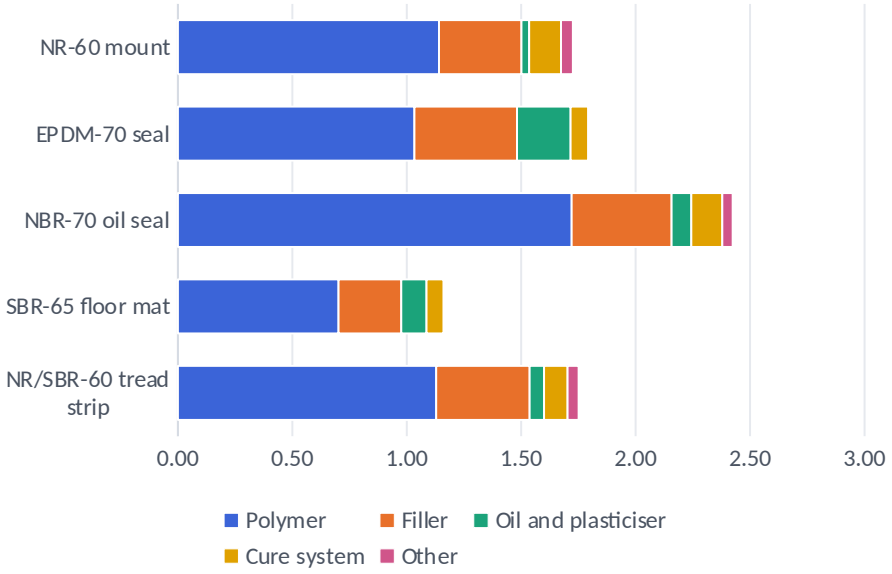
What each compound's price per kg is made of, and every batch's cost per usable kg against target.

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Kilbride Polymers, mixing room (example): 10 batches of 5 compounds from 14 ingredients. Amounts in USD.

BATCHES	COMPOUND MIXED (KG)	BATCH COST (USD)	BATCHES ABOVE TARGET
10	**6,150**	**12,052**	**2**
Rows on Batches	Batch weights	Material and setup	Cost per usable kg over the band

What each compound's price per kg is made of



Cost per usable kg against target

