



# Conceptual Plastic Creations

## True Balance Tire Weight System

Technical Data Sheet

October 2008

Product Type	Weight	Dimensions (h x w)	Material	Color
Silver Line	.25oz / 7g	.3125 x 1.75"	Rubber Based Composite	Silver
Black Standard	.25oz / 7g	.25" x 1.75"	Iron Based Composite	Black
Slim Line	.25oz / 7g	.25" x .625"	Iron Based Composite	Black
Low Profile	.25oz / 7g	.1875 x 1.75"	Iron Based Composite	Black
Heavy Duty	1oz / 28 g	.5625" x 1.75"	Iron Based Composite	Black



**Description:** A flexible high-density composite material that is cut to weight for precision wheel balancing. The weights are attached with a high performance automotive adhesive[1] to the interior wheel well.

### Benefits:

#### ► Simplicity:

- ❖Ease of installation = Cut to any length to achieve necessary weight with preprinted markings to serve as a guide. Tires are balanced with existing automotive balancing equipment, no special tools required.
- ❖Inventory reduction = Instead of a million different metallic weights, True Balance weights come coiled and cut length.

#### ► Environmentally Proactive:

- ❖No pollution = Lead[2] is a highly toxic chemical. Lost and used lead weights play a huge role in the contamination of our land and water. True Balance is manufactured with a non-toxic, eco-friendly compound.
- ❖Safe handling for employees

#### ► Enhanced Vehicle Appearance:

- ❖Eliminates corrosion of wheels
- ❖Eliminates unsightly clip-on weights. True Balance Tire Weight's are invisible with the interior application.

#### ► Improved ride:

- ❖Failure Rate: True Balance has a 0% failure rate on all vehicles tested opposed to 13% for lead weights.[3] Zero failure results in a consistently balanced vehicle ride.
- ❖Improved safety by decreasing uneven treadwear.

### Application & Reclamation :

True Balance tire weights are cut to length using preprinted markings. Balancing is done with minimal training using existing equipment. Static balancing is recommended but dynamic can be done. Taking the environmental component one step further, CPC has implemented a program to reclaim used weights and unused weight material.

[1] ASTM automotive adhesive

[2] <http://www.epa.gov/lead/pubs/leadinfo.htm#facts>

[3] [Lead Loading of Urban Streets by Motor Vehicle Wheel Weights](#), by Robert A. Root, PhD, Environmental Health Perspectives 108:937-940; October 2000. Sited from Jeff Gearhart, Ecology Center, Great Lakes Regional Pollution Prevention Round Table.

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Technical Data Sheet

Page 2

**Performance:** CPC's testing method was two fold, by product and vehicle. First, the individual product was applied to metal (tire rim simulation) and subjected to a variety of tests including stress, weather, temperature, and chemical exposures. Second, the actual product was road tested. In coordination with several local automotive dealerships, True Balance tire weight has been applied to over 300 new and used vehicles during the past 3 years and driven over 500,000 miles while maintaining successful tire balance (treadwear examined prior to application and during road testing). No failure in the adhesion of the product or its ability to maintain balance was reported.

**Product Testing** = tire rim simulation

Type	Description / Conditions	Duration	Results
Stress	Twisting, ripping, abrasion, and pulling	7/2005 to present	Pass <sup>[4]</sup>
Temperature - long term	-5° to 105° F / -20° to 40° C	7/2005 to present	Pass
Temperature - short term	heat / cold contrast	1 to 10 hours	Pass
Weather	Sun, rain, wind, and snow	7/2005 to present	Pass
Chemical	14 chemical road hazards, applied to the weight	7/2005 to present	Pass

**Road Testing** = Tire weight performance is assessed during regularly scheduled maintenance service.

Vehicle Type	Conditions	Miles	Results
Cars	City, County, Highway - nationwide, all seasons	500,000	No failures
Vans	City, County, Highway - nationwide, all seasons	500,000	No failures
Trucks:			
Commercial	City, County, Highway & Off-road (inclgd: forest fire fighting)	100,000	No failures
Private	City, County, Highway - nationwide, all seasons	500,000	No failures

**Performance Summary:** True Balance tire weights have traveled over 500,000 miles on 300 different vehicles during the past 3+ years with no reported failures or weight related loss of balance.

**Contact Information:** Call 1-800-877-1817 or visit us online at [www.fowler-inc.com](http://www.fowler-inc.com). True Balance is a creation of the CPC Division of Fowler Products Inc.

**Warranty:** All products are warranted by CPC, as the manufacturer, against defects in materials and workmanship presented to it within sixty (60) days of receipt of the order by customer.

**Limitation of Liability:** Replacement of the product which, after the manufacturer's examination, is found to be defective. CPC specifically disclaims liability for any and all consequential damages. It is important that the product be installed and used only for those purposes intended by CPC. Therefore, any installation or use contrary to that intended shall invalidate the warranty otherwise applicable.

<sup>[4]</sup> Pass= product retains memory with no distortion and no effect on the balancing properties of the weight