

## Stainless Steel Clad Aluminum Truck Bumper Material

SS/Al clad metal is a preferred choice for demanding over-the-road vehicle applications.

The Durable Bright Mirrored Finish with greater than 10X the Chrome Plating thickness resists cracking, peeling, pitting and fading.

Scratch and Corrosion Resistance of bumpers made from EMS' Clad Metal far out-perform Chrome Plated Steel alternatives.

Minor abrasions can be buffed to restore the original Bright Mirrored Finish.

Compared to Chrome Plated Steel or Solid Stainless Steel, Clad SS/Al can offer over a 50% weight savings offering improved fuel economy.



### Product Description - Key Attributes

**EMS Material Designation**

**SS / Al**

**Composition**

**S30100 / A93003**

**Ratios**

**Standards - 25/75 at 0.160" and 32/68 at 0.125" Thickness**

### Chemical Composition

**UNS**

**Grade Eur**

**Chemistry(%)**

S30100

1.4310

Cr 16.5 - 18, Ni 6 - 7.5, C 0.15 max, Mn 2 max

A93003

Al-Mn

Mn 1 - 1.5, Cu 0.05 - 0.2, Si 0.5 max

### Physical Properties

**ENGLISH**

**METRIC**

Clad Density

Ratio 25/75

0.145 lb / cu in

4.04 g / cm<sup>3</sup>

Ratio 38/62

0.169 lb / cu in

4.71 g / cm<sup>3</sup>

**America**

**Michael Hardy**

New Business Development

Phone: +1 508 342 2304

Email: mhardy@emsclad.com

**Asia**

**C.W. Kong**

General Manager

Phone: +86 514 8891 6888

Email: c.w.kong@wickedergroup.com.cn

**Europe**

**James Craggs**

European Business Manager

Phone: +44 (0)7799 358 150

Email: jcraggs@emsclad.com



Mechanical Properties	ENGLISH	METRIC
Yeild Strength 0.2% offset	35 KSI	241 MPa
Tensile Strength	65 KSI	448 MPa
Elongation 2" gage length	40 %	40 %

Other Properties	ENGLISH	METRIC
Peel Strength (Minimum)	100 lbs / in	18 kg / cm

Availability	
<b>Gauge</b>	0.020 - 0.160" (0.50 - 4.2 mm)
<b>Width</b>	Widths up to 25", (635mm) available
<b>Tolerances</b>	Commercial tolerances apply
<b>Ratio</b>	Standard 25/75 at 0.160" and 32/68 at 0.125" Gauge
<b>Surface</b>	Bight (Polished) or Matte Gray
<b>Temper</b>	0" temper (Soft). Other tempers available upon request
<b>Form</b>	Coil or Flattened Cut to Length Sheets- With or without PVC