

## Gravelometer series EQNA GR ASTM-SAE



Equipment manufacture accordance with the requirements of International and National Technical Standard for full compliance with the characteristics and specifications of the stone impact tests.

The Gravelometer EQNA GR ASTM-SAE realized resistance test of paints and/or coatings: under impact of abrasives simulation impact stones, mainly in automotive bodies.

Accordance the characteristics of building and specifications of the technical standard and your derivations :

<b>ASTM D3170</b>
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<b>SAE J400</b>
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***Others (on request)***




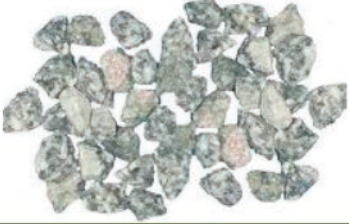

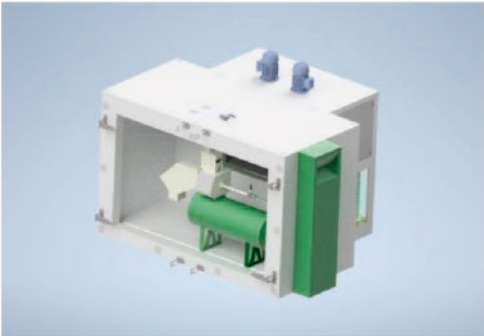
## TECHNICAL SPECIFICATIONS

- The Gravelometer series **EQNA GR ASTM-SAE**, have the structure build in steel, with paint high strength epoxy;
- Dispose in the cylinder compressed air is 90 liters with certified of hydrostatic test, of high capacity for maintenance of pressure and compressed air flow required during the test;
- Accordance the require of NR12, equipment manufactured under pressure vessel;
- Pressure gauge with pressure indication in the units:  
(bar; kgf/cm<sup>2</sup>; psi)  
(0 ~ 4 kgf/cm<sup>2</sup> +/- 0,1 kgf/cm<sup>2</sup>)
- Casters in polymer for facility the moving;
- All the electric components had register in UL;
- Building accordance with the UL508a;
- "Pulse-Stop" for prevent the vibration during the test;
- Power 220+/- 10% Vac +/- 10% - 50/60 Hz;
- Emergency button;
- Security automatic system of operator with view LED indicator; for position of sample and abrasive collection drawer;
- Digital timer for counting the test time specified in the standard;
- Digital timer of current cycle , for determined the life of the abrasives;
- Digital timer of total cycle realized that equipment;
- Abrasive inlet with control of vibration intensify, that possibility the flow control, accordance the standards;
- Clean system and pressure adjusted – after test;
- Pressure gauge with RBC certificate;
- Certificate of hydrostatic test in the air compressor tank (cylinder).

## OPTIONAL ACCESSORIES

EQOP.0009	Filter for air compressed line.	
EQOP.0033	Packing EQNA GR DIN; Wood box with pallet.	
EQOP.0057	Impact Chamber 45° <b>(INCLUDED)</b>	
EQOP.0058	Impact Chamber 90° <b>(INCLUDED)</b>	
EQOP.0059	Impact Chamber 135°	
EQOP.0061	Impact Chamber 3D <b><u>(Custom Project on request).</u></b>	



<p><b>EQOP.0081</b></p>	<p>Chilled iron grit 0.15"- 0.19" (4.0 a 5.0 mm) With traceable certificate RBC Packing with 2.24lbs. (1.100 Kg)</p>	
<p><b>EQOP.0082</b></p>	<p>Worn River Gravel 0.34"- 0.62" (9.5 - 15.9 mm) With traceable certificate RBC Packing 6.6lbs. (3 Kg)</p>	
<p><b>EQOP.0083</b></p>	<p>Crushed granite 0.10" - 0.19" (3.2 - 14.2 mm) With traceable certificate RBC Packing 4.41lbs. (2 Kg)</p>	
<p><b>EQOP.0084</b></p>	<p>Crushed granite 0.10" (3.2 - 9.5 mm) With traceable certificate RBC Packing 4.41lbs. (2 Kg)</p>	
<p><b>EQOP.0085</b></p>	<p>Cast steel shot 0.06"- 0.11" (1.7 - 2.8 mm) With traceable certificate RBC Packing 2.24lbs. (1.100 Kg)</p>	
<p><b>EQOP.0157</b></p>	<p>Special freezer for enclosure of complete equipment for working up to <b>-30°C</b>, with access doors for work.</p> <ul style="list-style-type: none"> <li>• Range: RT +9°F (5°C) to -22°F (-30°C) in 35 minutes;</li> <li>• Compressor Power 12HP (30540 BTU/hr);</li> </ul>	

	<ul style="list-style-type: none"> <li>Electrical Supply 220v/3ph/60Hz (Others on request).</li> </ul>	
<b>EQOP.0158</b>	<p>Special freezer for enclosure of complete equipment for working up to <b>-20°C</b>, with access doors for work.</p> <ul style="list-style-type: none"> <li>Range: RT +9°F (5°C) to -4°F (-20°C) in 30 minutes;</li> <li>Compressor Power 10HP (25450 BTU/hr);</li> <li>Electrical Supply 220v/3ph/60Hz (Others on request).</li> </ul>	
<b>EQOP.166</b>	Pressure gauge certificate for pressure control.	
<b>EQOP.167</b>	Air compressor tank certificate accordance ASME code section VIII.	

## CUSTOMER REFERENCE LIST

AEROSPACE	AUTO INDUSTRY	WHITE LINE	PAINT ELECTROPLATING	UNIVERSITIES RESEARCH CENTERS	METALLURGY
Eaton Aerospace Group	Fiat	Multibras	Anjo Quimica	ALAC	Allevard
Embraer	Ford	Bosch	Akzo Nobel	CTA S.J.Campos	Castrol
Safran Labinal Power Systems	General Motors	BSH Continental	Basf - Glasurit	Falcão Bauer	Cebrace
Segers Aero Corp	Honda	Electrolux	Chemetall	FEI	Continental Teves
LATAM	Iveco Fiat	GE - OSI	Dörken	IPEN – SP	COSIPA
	Marcopolo	Whirlpool	Killing	IPT - SP	CSN
	Mercedes Benz		Magni América	ITAL	Keko
	Peugeot		Metalcoating	PUC - RJ	Metagal

	Citroen				
	Renault		Niquelação Brasil	SENAI	Petrobrás
	Scania		PPG	Ericksen- France	Sachs
	Volkswagen		Zincagem Martins	Ericksen- Italy	Shell
	Volvo		Sherwin Willians	UL labs	Siemens
	Toyota		Norris Precision	University of Dayton Research Institute	Tramontina
	Honda				Tenneco
	Bolta				Gem Lux
	Nitto Automotive				

**1 (One) Year Parts Warranty** against manufacturing defects from date of delivery at customer's site. This assumes equipment is used under normal operating conditions in accordance to the instruction manual. This warranty does not apply to glassware (lamps). In case of non-warranty issues during warranty period, actual expenses shall apply.

**Note 1:** All our equipment is delivered with Installation, Maintenance, and User Manuals. We believe this material is enough for the correct use of the equipment. We are available for further questions and clarifications. If necessary, we provide the service of assembling and staff training at client's site (Cost for this service available upon request).

**Note 2:** Appearance and specifications of equipment are subject to *change without prior notice*.