

## Universal Type Silencer – Round Shape



**egsan**

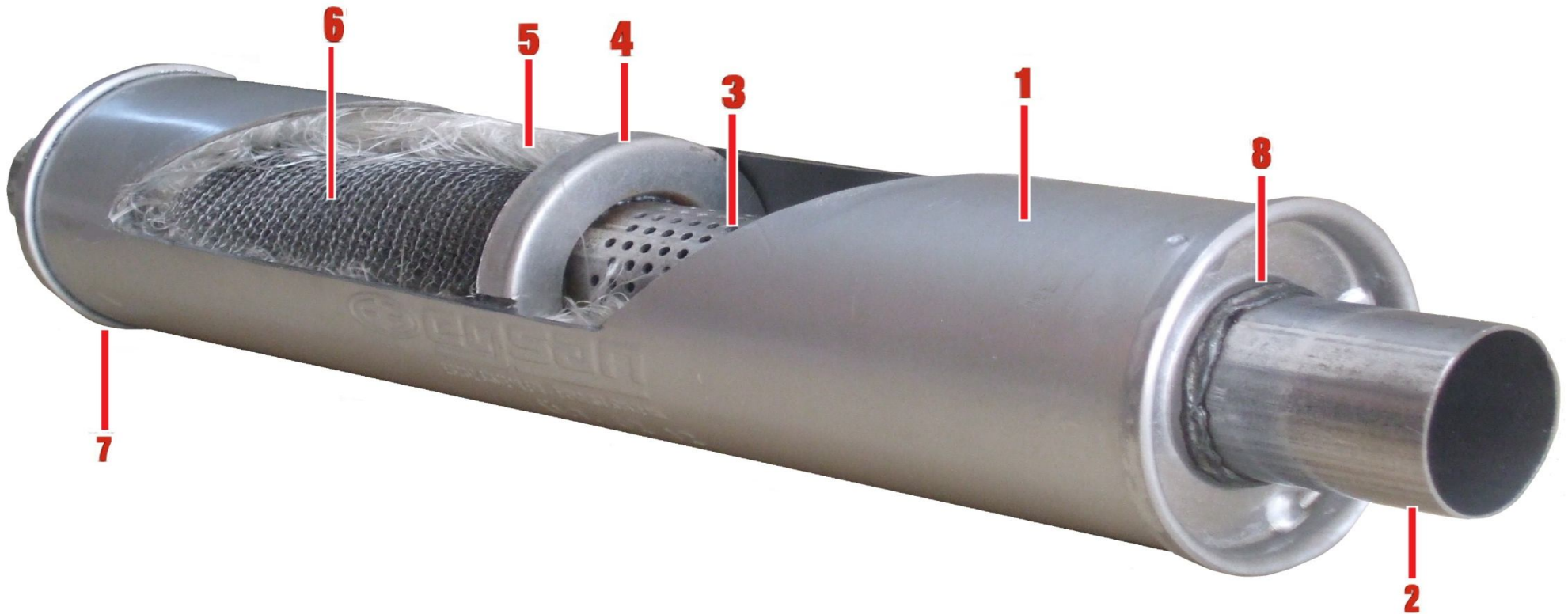
*Leading Manufacturer of Eco-Friendly Exhaust Systems*



## SUMMARY OF PRODUCT CHARACTERISTICS

**EGSAN Product Universal Type Silencer:** consists of entirely aluminium-coated steel sheet body and the pipe. Raw Material: Aluminized steel sheet is resistant to negative internal and external influences as well as corrosive conditions. Body inner covers that have been welded and fixed in the form of lap-joint and outer covers have been installed and fixed by lock-seam machine. It is sound, long-lasting and reliable silencer even in the most difficult conditions. Single perforated pipe; inlet to the outlet of exhaust system lets gases to advance in laminar flow meanwhile structure of the inner cover in the centre impedes deformation in the result of thermal changes. Steel mesh which entirely wraps Perforated pipe reduces ratio of heat influences on aluminium-coated body and pipe. Inner body tightly filled with fiber glass provides acoustic and smooth sound.

Universal Type Silencer is made of Aluminized steel sheet ( $120 \text{ g/m}^2$ ) which is strict compliance with EN 10346:2009 Standard. All EGSAN products are under 2 years warranty



# TECHNICAL SPECIFICATIONS

## 1. Silencer Body – Aluminized Steel Sheet

Entirely high-rate (120 g/m<sup>2</sup>) aluminium-coated Long-lasting Outer body sheet at DX53 degree of hardness is strong resistant to high thermal conditions and other corrosive environmental conditions.

## 2. Exhaust Pipe - Aluminized Steel Sheet

A long-lasting Aluminium Coated one-piece pipe whose remaining part in the silencer is perforated; resistant to internal and external factors. The one-piece pipe pass through a body uninterruptedly; provides high-pressure exhaust gases to be released with mid-level local losses. In this way fuel consumption stays at economic level while engine performance increases appreciably. In addition, through flexible structure of quality raw material prevents corrosions, laceration, cracks, wear and tears during production and driving

## 3. Interior Holes on Aluminized Steel Pipe

Holes are in frequent intervals and in an optimum layout that would not reduce the strength of aluminium-coated pipe, provides an acoustic sound to be heard by absorbing engine noise within the body of silencer.

## 4. Silencer Central Cap

It is made of aluminium-coated sheet, placed right in the centre in order to increase the resistance of the silencer. It is mounted both the pipe and the body with tight fitting and welding, effectively absorbing the vibrations. Drilled Holes on the cap let the high pressure exhaust gas pass through easily with reduced local losses.

## 5. Steel Wire Mesh

It is tight wire steel mesh with advanced sound-absorbing property which impedes disturbing sound of Blowing and spraying. It wraps pipe tightly, prevents body from damages due to high-temperature gas coming out of engine .

## 6. Fiber-Glass Wool

It is firmly filled into the body to absorb the noise. (Beside noise absorbing function, it ensures inlet gas pressure  $P_g$  to be decreased linearly along silencer  $X_L$  with the rate loss depending on intensity of fiber  $K$  and to be reached the closest rate of external environment pressure  $P_{atm}$ )

## 7. Seamed Cover

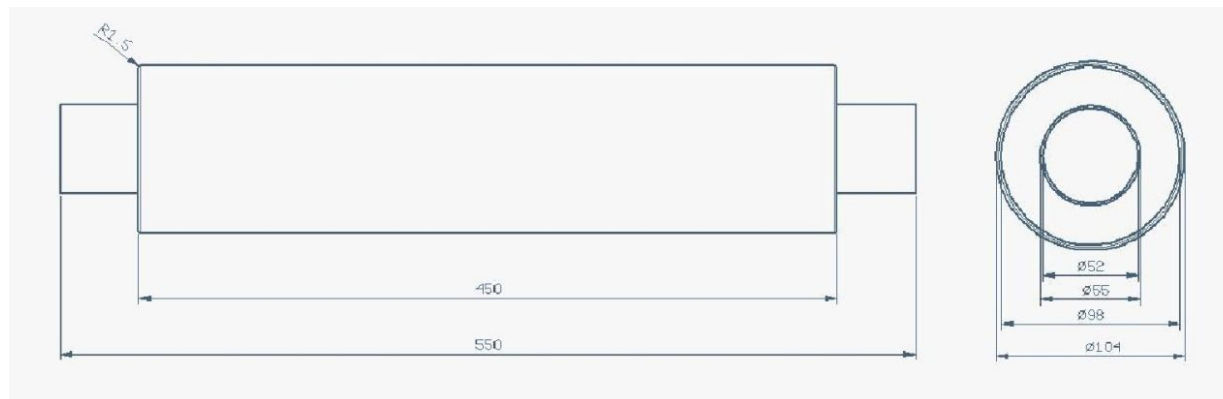
It is tightly assembled outer cap that cuts off the contact of main body with the outside, ensures leak proof. Automatic lock method is used in montage instead of welding. This method prevents probable deformations on outer body sheet due to excessive high temperatures that applied to body during welding process. Also, silencer is prevented from cracks and tears that caused by vibrations due to different coefficient of elasticity of sheet and welding melt in the long term.

(The highest pressure ( $P_{yuk}$ ) that would guarantee impermeability is always higher than average pressure ( $P_{mean}$ ) occurred within the body)

## 8. Welded Pipe Transition

The one-piece Pipe is mounted to outputs sections of body by MIG (Metal Inert Gas) welding method. In this way, its stability and impermeability is completely ensured.

# PHYSICAL CHARACTERISTICS



Raw Material

$120 \text{ g/m}^2$  Aluminium-coated Steel sheet at DX53 degree of hardness

<b>Silencer Shape</b>	: Round
<b>Overall dimensions</b>	: 104 mm diameter x 550 mm long
<b>Body shape</b>	: 104 mm diameter circular cross-section
<b>Body Length</b>	: 450 mm
<b>Body thickness</b>	: 1,2 mm (0,6 mm x double-layer)
<b>One-piece Pipe Length</b>	: 550 mm
<b>Pipe diameter</b>	: 55 mm
<b>Inlet/outlet position</b>	: Central / Central
<b>Inlet/outlet diameter</b>	: 55mm / 55mm
<b>Warranty</b>	: 2 years

## OTHER FEATURES

- Reversible muffler functions in both directions; can be flipped around for custom installation
- Full impermeability
- Designed and manufactured for diesel and gasoline engines
- Welding required for installation
- Made in Turkey ( EGSAN Factory in Istanbul)



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