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Why BOR-ON Materialtest?

Facts:

The car manufacturer has increased their use of special alloyed steel in car bodies and the trend is that this will increase more in the future.

There are three (3) main reasons why this has happened:

1. Increased safety;

The special alloyed steels have extremely high strengths, in some cases more than 10 times higher than normal car body steel, increased crash protection and safety can be obtained

2. Fuel economy;

The special alloyed steel with high strength make it possible to use a thinner gauge of material which results in a light weight car body, therefore improving the vehicle fuel economy.

3. Less material costs;

The increased material cost of steel makes it more economical to use special alloyed steel to reduce the total steel use

The impact on the collision repair:

The special alloyed steels place higher demands on body repairer's knowledge and repair method and also the correct equipment.

When pull and straightened:

- The special alloyed steel is extremely hard and difficult and generally has to be repaired in accordance to the correct repair method, which demands greater time and correct tooling compared to normal body steel.
- The special alloyed steel in combination with modern vehicle design means that the impact energy transfers into surrounding panels creating the need for more parts replacement and repairs to the surrounding areas. This increases the cost and time of repair.
- Some of the new materials are heat sensitive which make it impossible to use heating when pulling and straightening and therefore is more time consuming and difficult to repair.
- Some materials are so hard that it is impossible to pull. Pulling could result in damage to surrounding areas. Incorrect diagnose of the material could result in lost repair time.

When replacing parts:

- Because of the hardness of the special alloyed steels it will need to be cut away. The surrounding softer sections will require individual pulls before replacing the new parts to ensure correct alignment of the new part, this is more time consuming and costly compared to older materials and methods.
- Normal techniques of cutting and joining cannot be used in most cases because of the special alloyed steels sensitivity of heating when welding.
- Time consuming removable of surrounding material is in many cases necessary to be able to weld and mount new parts in conjunction with the car manufacturers recommended repair methods, so that satisfactory safety standard of the car also after the repair is obtained.
- Both time consuming and costly equipment is needed to be able to dismantle and mount new parts, Plasma cutters, Titan drills and special hacksaw blades etc

Postadress/Postal address
JNE AB
Box 200
S-597 24 ÅTVIDABERG
SWEDEN

Besöksadress/Visiting address
Telegatan 3
S-597 30 ÅTVIDABERG
SWEDEN

Telefon/Telephone
+46 (0)120 10990
Telefax
+46 (0)120 10940

E-post/E-mail
info@jne.se
Orgnr/VATno
556466-5197
SE556466519701

When welding:

- Some of the new materials can not be Mig/mag welded or heated because they then changing structures and becomes softer which affects the safety of the car.
- It is important to know the material type so that the correct welding parameters can be applied. The result of this is strong safe welds.
- Always use welding parameters and methods required by the car manufacturers to ensure that the car is returned to its original state of safety.

Advantages when using BOR-ON Material test:

- **Diagnose the repair at estimation stage!**
When estimating diagnose the material then the correct repair method saves time and supplementary estimates costs.
- **Order correct Parts!**
Once the material is correctly identified new part can be ordered and down time avoided
- **Get correctly paid for your job!**
When straightening, repair and replacements is carried out on a part which is more time consumable and costly than normal material, you have the right to get properly paid for the job
- **Save time in the repair process!**
By correctly identifying the material which will avoid attempts to repair a part that should be replaced.
- **Insure safe repair!**
By knowing which material type is to be repaired you can apply the correct recommended repair method and welding procedures.
- **Test CERTIFICATE as printout!**
BOR-ON product includes web-based software for creating a Test Certificate (PDF) for traceability of the material & repair method
- **Get correct information!**
BOR-ON Certificate gives instant access to more than 45 manufactures links to web platforms where you can access technical information and repair methods.

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Box 200
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Besöksadress/Visiting address
Telegatan 3
S-597 30 ÅTVIDABERG
SWEDEN

Telefon/Telephone
+46 (0)120 10990
Telefax
+46 (0)120 10940

E-post/E-mail
info@jne.se
Orgnr/VATno
556466-5197
SE556466519701