

## FDG (W)

### ***A carburizing steel to minimize heat treatment distortion***

A technical brochure dedicated to FDG (W) is now available.

The carburizing solutions available so far (9310, 9315, S82) have shown limitations in terms of hardenability, often requiring oil quenching. The severity of this type of quenching induces major distortions which need to be repaired.

Aubert & Duval has developed a simple solution which can be gas quenched; FDG.

Thanks to its composition, the FDG is capable, after gas quenching, of the same mechanical properties as main solutions. Furthermore this grade is suitable for the production of very large parts, using oil quenched.

FDG (W) is used and tested in industrial fields such as aerospace, transmissions and automotive, for any carburized parts with high risk of distortions.

In addition to his quenching ability enabling reduced distortion and production of large parts, this grade offers the following advantages:

- High ductility and fracture toughness
- Simple composition (no Co ...)

You will find, attached, a .pdf version of the brochure, for your own use/reference only. Customers' copies can be ordered at the following e-mail address [documentation-ad@eramet-aubertduval.com](mailto:documentation-ad@eramet-aubertduval.com).

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