Weber Motor	Classifying of significant characteristics	WAN ZG - 0005

English Version

1. SCOPE OF APPLICATION

The standard WAN ZG-0005 – Classifying of significant characteristics – is applicable to classify the product and the production processes characteristics of components made for Weber Motor GmbH and defines the marking of the significant characteristics in all technical documents.

The standard WAN ZG-0005 – Classifying of significant characteristics – is to be applied to all sellable products, which are made by Weber Motor GmbH, as well as all components and processes which lead to these products, generated by third parties on behalf of Weber Motor GmbH.

2. AUTHORIZATION

The standard WAN ZG-0005 Index B is valid from: April 11, 2011
WAN ZG-0005 exists in both German and English. In case of differing interpretations the German version is legally binding.

Release authorized by:

Markdorf, April 11, 2011 **signed : Eberhard Wizgall**
Vice President & CTO

3. CHANGES

Stage of revision: B
Responsible for changes: author
Document management: DEP Quality Management / Environmental Protection

Summery of changes:
Update of Responsibility for this WAN to Weber Motor GmbH

Author: FE-PT/ R. Schürer	Pages: 4	Replaces issue from: 15.07.2010
Checked: FE-M G. Kempter	State of revision: B	
Release GF/ E. Wizgall	Distributed: P-QM/UM /M. Pleikies	Date of Issue: 11.04.2011

4. CONTENTS

4.1. Definition und Deduction of Significant Characteristics

Based on the definition of significant characteristics of ISO/TS 16949, Weber Motor GmbH defines the following classes of characteristics:

- **Safety characteristics** 
  Safety characteristics are special product or process features, which influence safety, danger to life and limb or compliance of legal requirements.

- **Functional characteristics** 
  Functional characteristics are product or process features which have a significant influence on function, correct fit or appearance of the product.

- **Standard characteristics**

  Features without special classification

Safety and functional characteristics therefore are product or process features, where a deviation may endanger the

- **Compliance with legal requirements**
- **Product safety**
- **Functionality**
- **Ability to assemble / disassemble**
- **Subsequent process steps**

The deduction of significant characteristics during the development process is the responsibility of the component attending engineer (BV).

Sources for the deduction of significant characteristics are:

- **Legal requirements**
- **Emission control requirements**
- **Customer requirements**
- **Risk assessments through SFMEA, PFMEA or DFMEA**
- **Calculations (e.g. FEM)**
- **Experience from the development of existing products**

For the graduation of the classes of characteristics, Weber Motor GmbH defines the following minimal requirements based on the conventions of VDA Ch. 4 „Wirtschaftliche Tolerierung“:

Class of characteristic		FMEA – score	Typical requirement CpK	equivalent ppm	Equivalent %
Safety characteristic		9-10	>1,67	<0,3	
Functional characteristic		7-8	>1,33	33	0,003
Standard characteristic		1-6	>1,00	1350	0,135

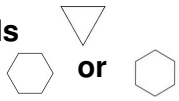
4.2. Documentation

Significant characteristics are to be marked as, such taking into account references in Ch.5 of this standard. This applies especially to:

- **Production control documents (PLP, Control Plan)**
- **Design FMEA**
- **Process FMEA**
- **Drawing**
- **Component specifications of purchased parts where significant characteristics are communicated.**
- **Work and check procedures**
- **Goods inwards inspection plans**
- **Operator and product manuals as necessary.**

The following marking is defined by Weber Motor GmbH and is binding:

- **Safety characteristic:** **Triangle with point downwards**
- **functional characteristic:** **Hexagon**
- **Standard characteristic:** **no marking**



The marking on drawings contains an ID number in addition to the symbol, used, for example, for initial sample approval.

Part of the documentation of significant characteristics includes a table with ID number and source.

Suppliers of Weber Motor GmbH are required to analyse customer requirements and have to mark significant characteristics resulting from either their process and/ or the Weber Motor GmbH requirements.

4.3. Measurement System Analysis

For measuring or checking systems used for inspection of significant characteristics, a capability study must be documented.

4.4. Deviations

For safety characteristics, no deviations (exceptions, deviation requests etc.) are permissible.

For functional characteristics, deviations are permissible, taking into consideration the risk, if the compliance with legal or customer requirements is guaranteed. These permissions require the sign-off from the component attending engineer and are to be documented.

5. RELATED DOCUMENTS / CITED STANDARDS

- **ISO/TS 16949**
- **VDA Ch. 4**
- **WAN ZG-0005 itself is to be treated as a related document for the documentation listed in Ch. 4.2. Therefore, no reference to WAN ZG-0005 is necessary in these documents.**