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## Fehling CERAMO<sup>®</sup> Surgical Instruments Features & Benefits:

### CERAMO<sup>®</sup> Features:

- **Ultra hard:** results in outstanding wear resistance.
- **Inherent lubricity:** substantially reduces friction and prevents galling.
- **Very dense:** provides a non-stick surface for an easy to clean instrument that does not stain.
- **Highly inert:** will not corrode and has excellent chemical resistance.
- **CERAMO<sup>®</sup> coating is a molecular bond:** it does not blister, flake or chip.
- **Dark color surface:** reduces reflective glare and enhances depth perception of the surgeon.

### CERAMO<sup>®</sup> Benefits:

- **Reduction of abrasive wear:** Surgical instruments with surfaces that are subject to abrasive wear benefit the most from a CERAMO<sup>®</sup> coating. Cutting edges of scissors, kerrisons, rongeurs, curettes, etc. remain sharp for an extended time. CERAMO<sup>®</sup> protects the jaws of needleholders and forceps. Surfaces like atraumatic DeBakey or tungsten-carbide-melt are improved and remain intact.
- **Improvement of hygiene:** The smooth, dense structure of CERAMO<sup>®</sup> coating reduces the risk of contamination by germs and toxins. Since CERAMO<sup>®</sup> coating is applied while the instruments are disassembled, all components of an instrument are completely covered by CERAMO<sup>®</sup>. The outstanding chemical inactivity of CERAMO<sup>®</sup> surfaces practically avoids chemical reactions, reduces sticking and improves the cleaning. CERAMO<sup>®</sup> does not require any special cleaning / sterilization procedures.
- **Reduction of reflective glare:** The surgeon's sight is improved because the dark color of CERAMO<sup>®</sup> coated instruments does not reflect the surgical lights like stainless instruments, therefore influencing advantageously the quality of surgical work. Furthermore the perception of how deep an instrument is in the wound is enhanced with the sharp contrast between the CERAMO<sup>®</sup> instrument and tissue / bone.
- **Optimal grip with CERAMO<sup>®</sup> / PLASMA forceps / needleholders:** Micro needleholders and forceps feature a tungsten-carbide-melt surface in the jaws. On top of this surface, however, we have the CERAMO<sup>®</sup> coating. With this combination the problem of "rotating needles" (size 7.0 and smaller) in the jaws of the needleholder under regular conditions is solved, even if grabbed at the very distal end. With CERAMO<sup>®</sup> forceps the surgeon can grasp tissue, sutures, etc. with a secure grip.
- **Improvement of economy:** The fact that CERAMO<sup>®</sup> coated instruments have a prolonged life of at least 6 times that of conventional instruments accounts for considerable savings in the hospitals. Cost of maintenance / repair is drastically reduced. Replacement instruments / back-ups for instruments out of service are not necessary. Due to the enhanced performance, surgery time is shortened, resulting in savings in O.R. use, time and personnel. Further costs avoided are instrument-related surgical complications, subsequent surgery and indemnification.