

COMPOSITE TECHNOLOGY

Welcome

Corrosion & Wear Control for Industrial use



Technicore- OCC



Brent-OCC

COMPOSIETEN

Toepassing:

Constructie onderdelen

Oppervlakte behandeling



COMPOSIETEN



Rust never sleeps



COMPOSIETEN

Waarom een metaal kan falen?

constructie

Vermoeidheid
Impact

oppervlakte

Schuren
Corrosie / Erosie
Chemische
aantasting
Cavitatie

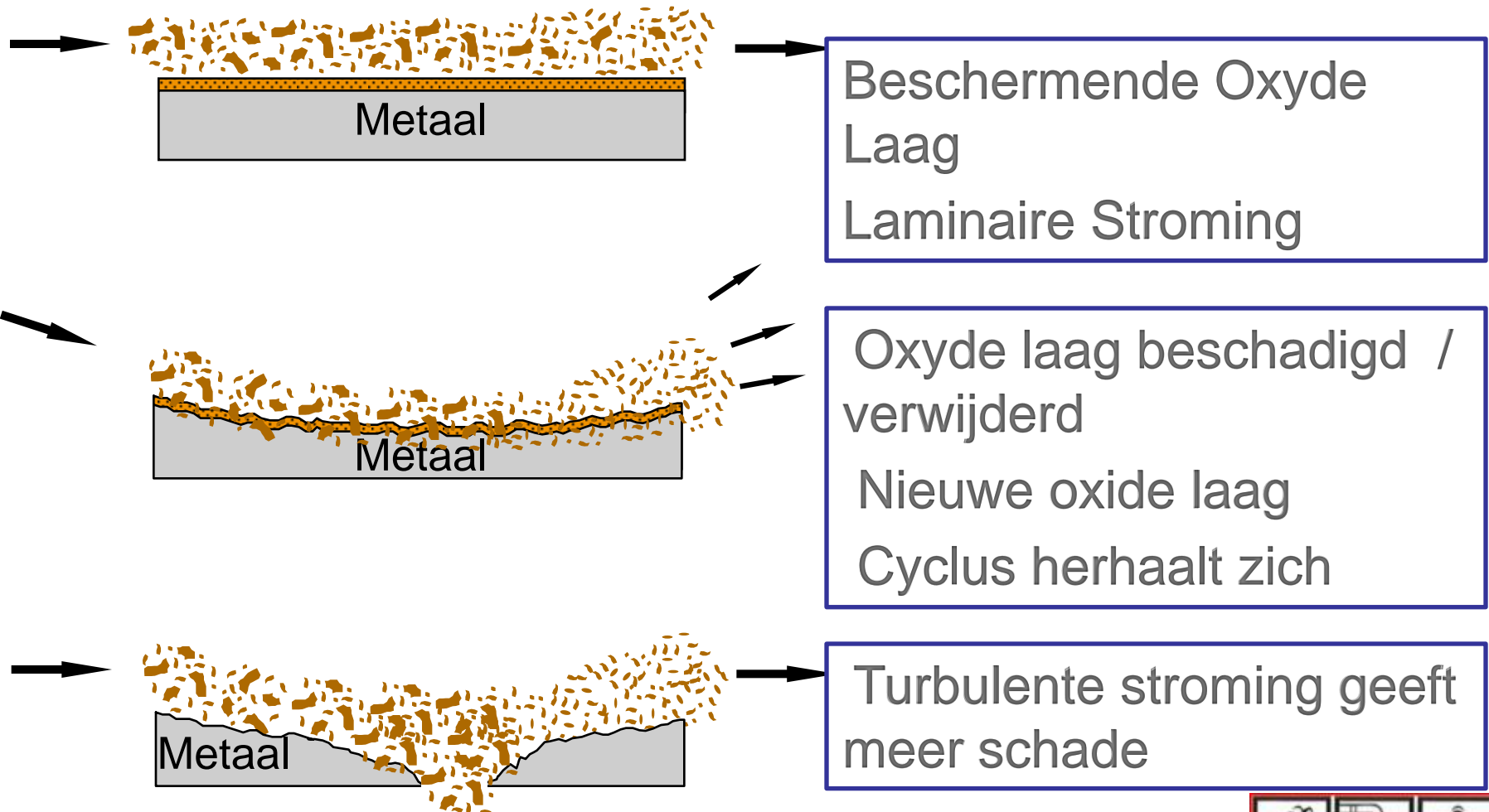
Primaire oorzaak van schade aan metaal:

Zwak oppervlak

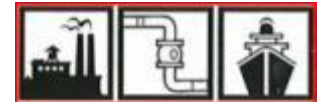


COMPOSIETEN

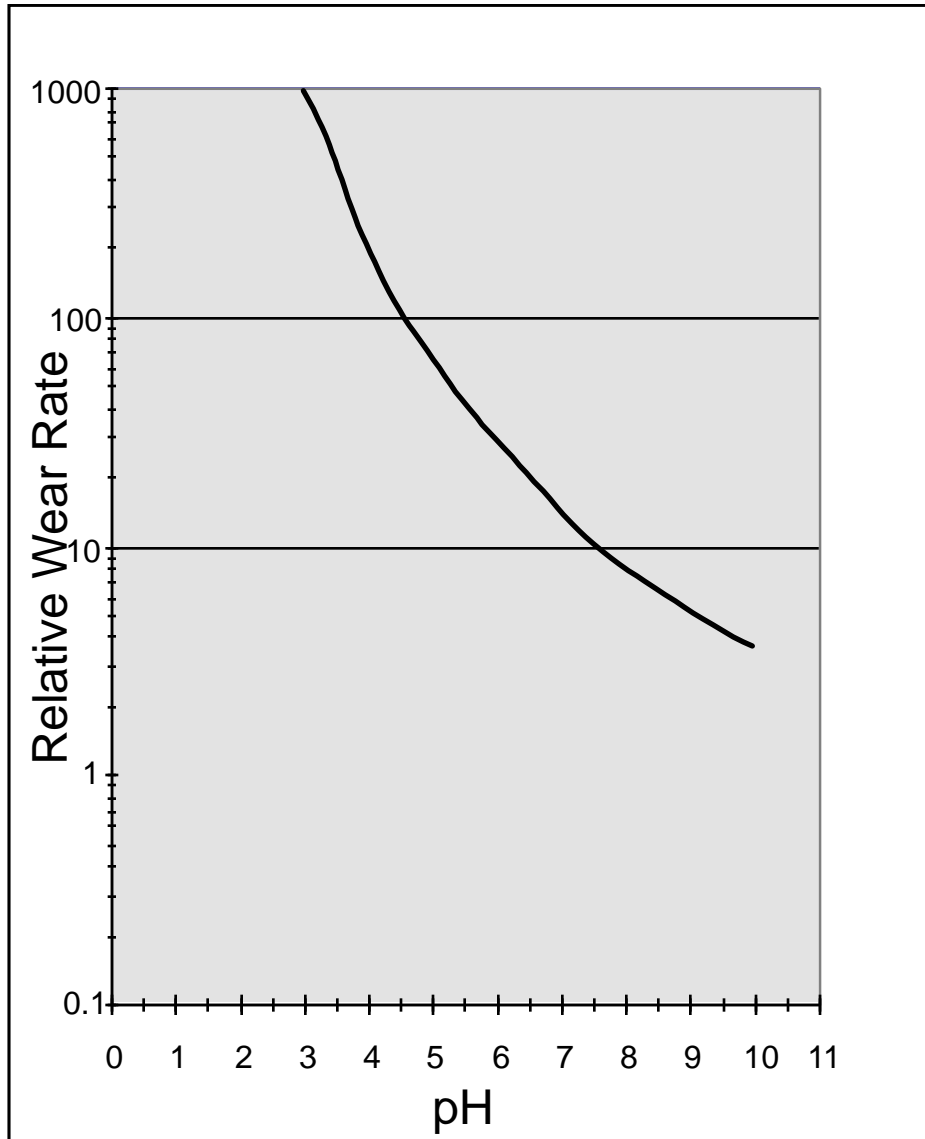
Oorzaak van de schade aan het oppervlak?



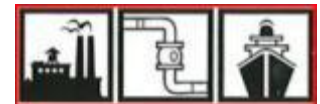
Rust never sleeps



Slijtagegraad versus pH

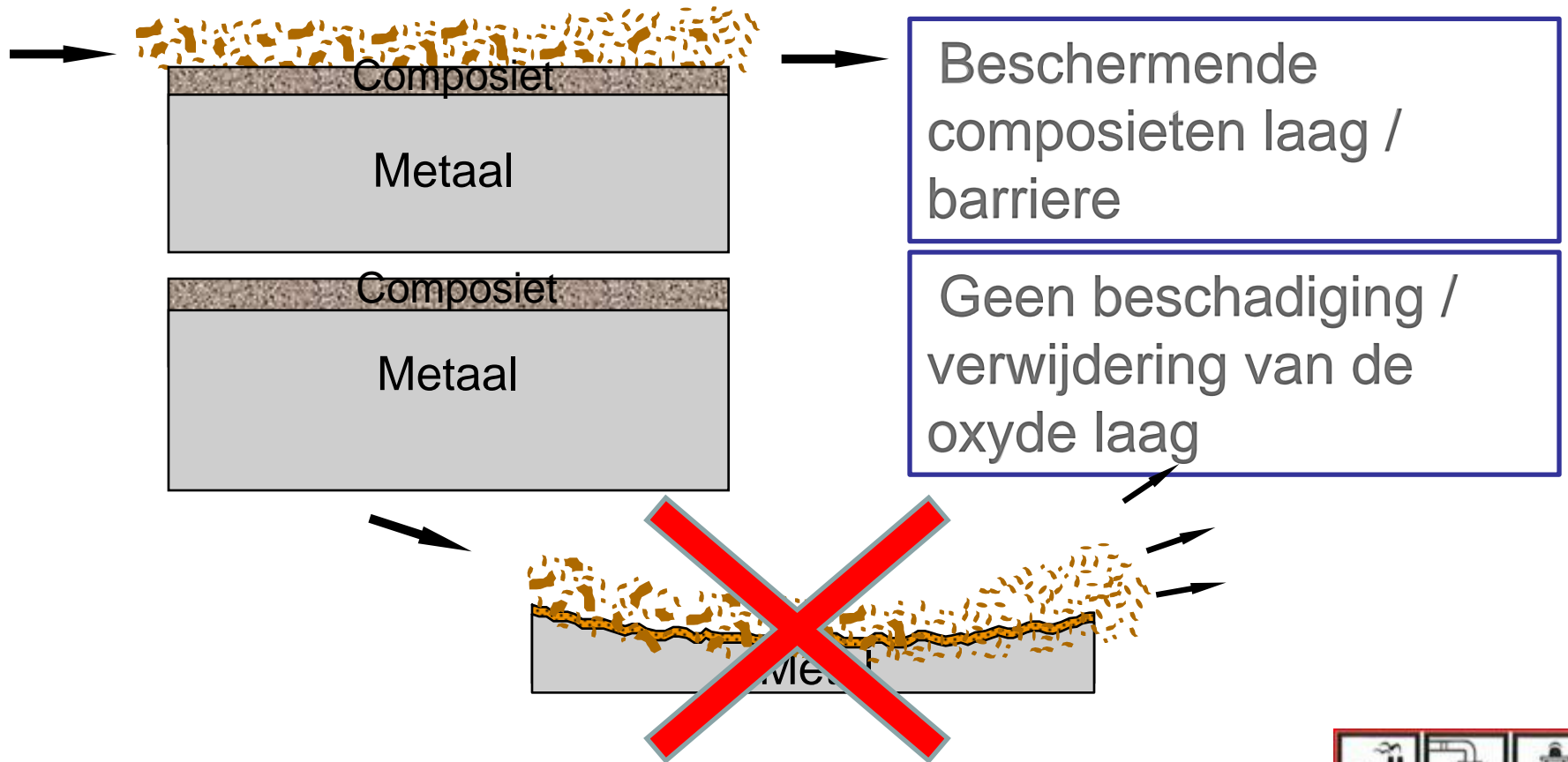


De snelheid van oxidatie vorming op metaal wordt beïnvloed door de pH graad

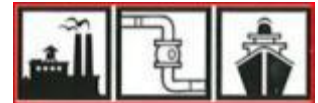


COMPOSIETEN

Waarom een metaal kan falen?



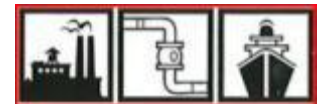
Rust never sleeps



Conventionele Methoden

Oppervlakte bescherming

- Standard Coatings
- Rubber Lining
- Glasflake Coatings
- Ceramische Tegels
- Hardmetaal Lassen
- Speciale Legeringen



Conventional Methods

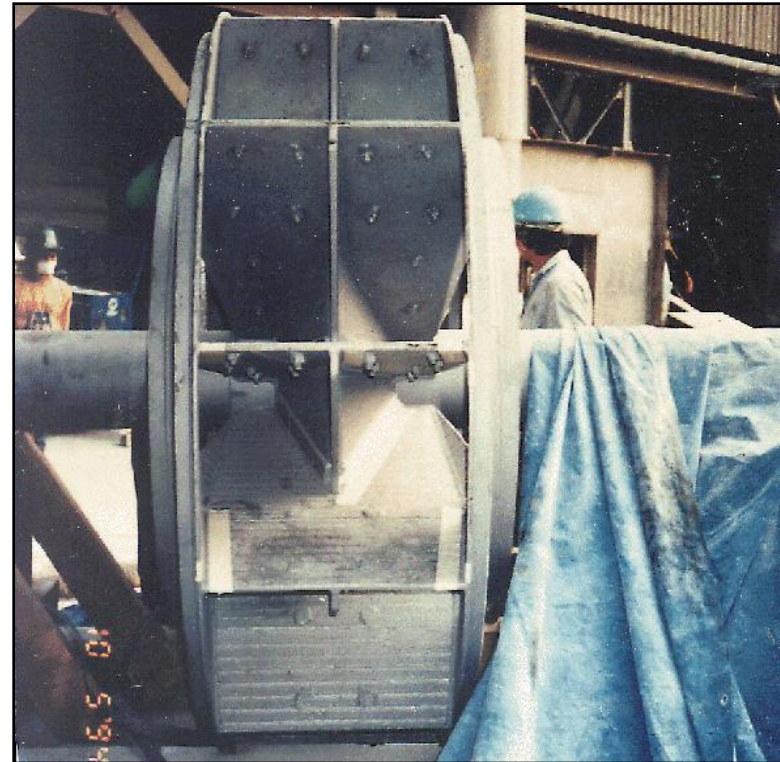
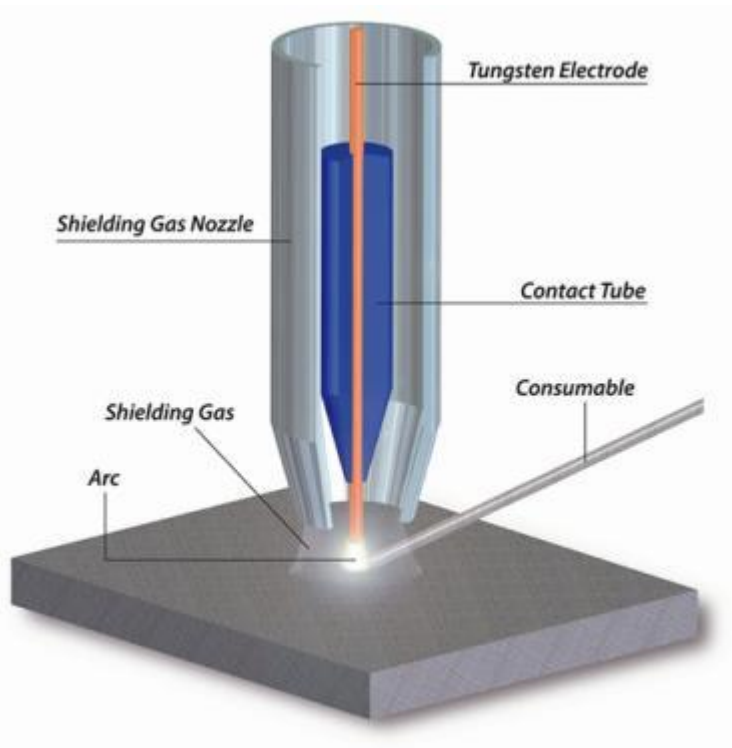
Oppervlakte bescherming
– Ceramische tegels



Conventional Methoden

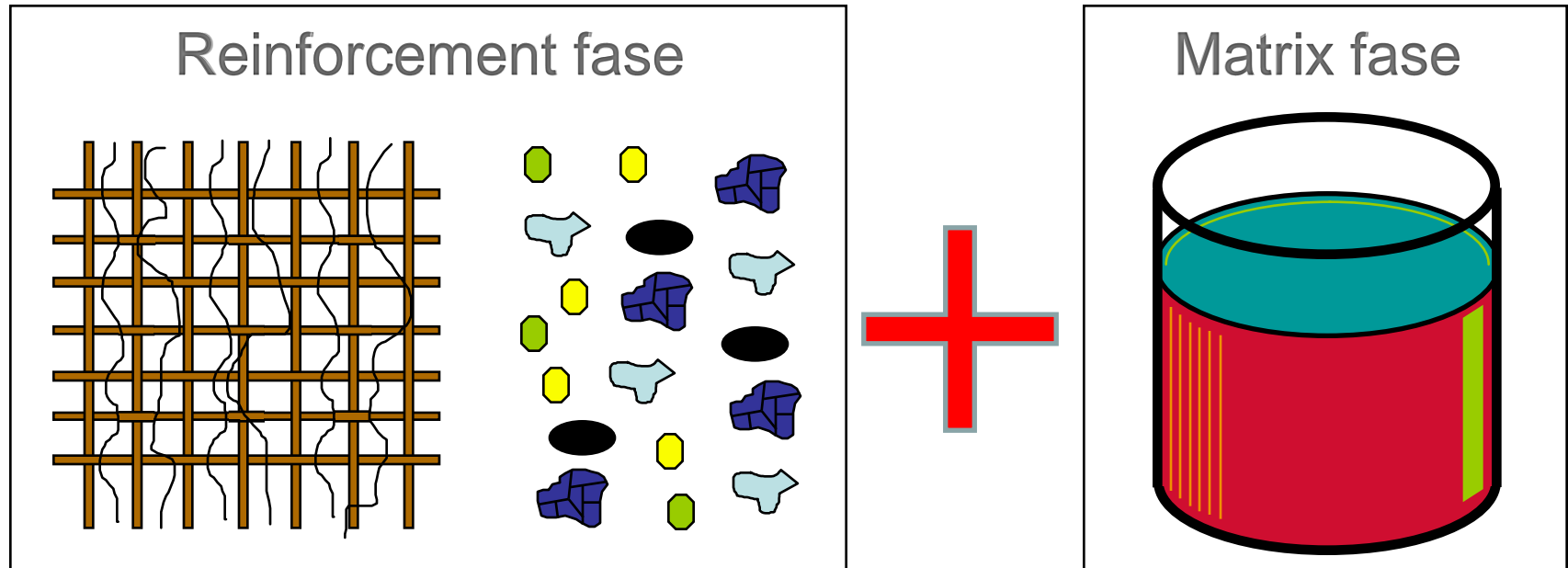
Oppervlakte bescherming

– Hardmetal lassen



COMPOSIETEN

Een stof die bestaat uit twee of meerdere componenten in gescheiden delen



Reinforcements

Fibers

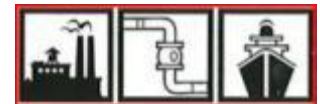
- Aramid
- Graphite
- Glass
- Nylon

Deeltjes

- Ceramic
- Mineral
- Metals
- Quartz

Polymeren

- Epoxy
- Phenolic
- Polyester
- Polyurethaan



COMPOSITEN

High Performance Technology needs:

- ✓ **Chemistry of the Matrix**

 - 100% Solids

 - Non solvents

- ✓ **Reinforcing Phase**

 - Type

 - Size, Shape

 - Surface Treatment

 - Manufacturing

 - High sheare production mixing

 - Vacuum process manufacturing



COMPOSIETEN

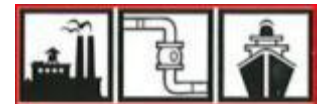
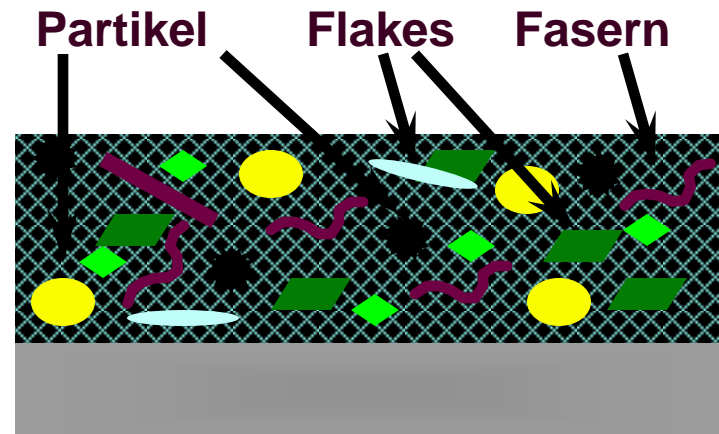
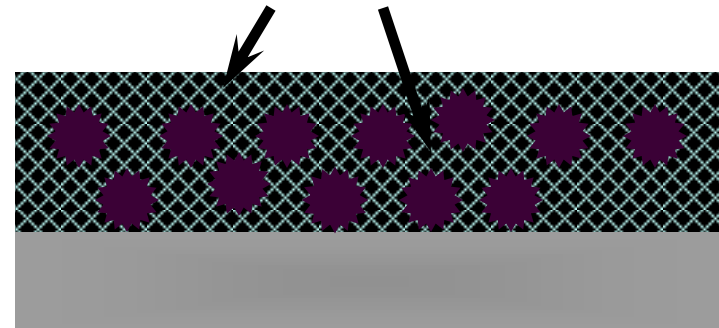
High Performance Technology

✓ Ontworpen voor optimale:

- Hardheid, Afmetingen, vorm
- Verpakking

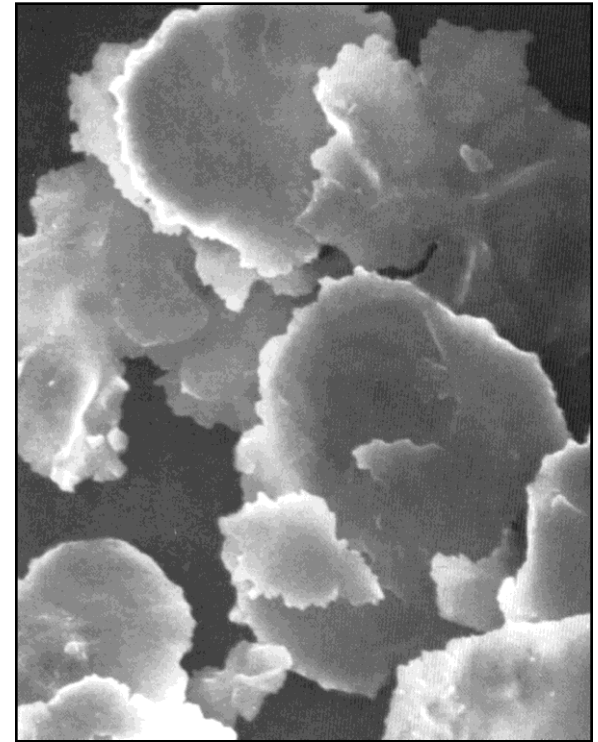
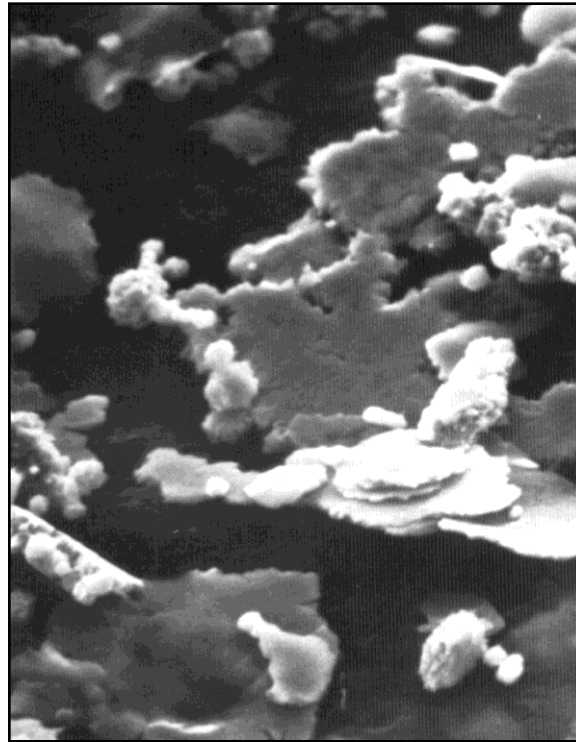
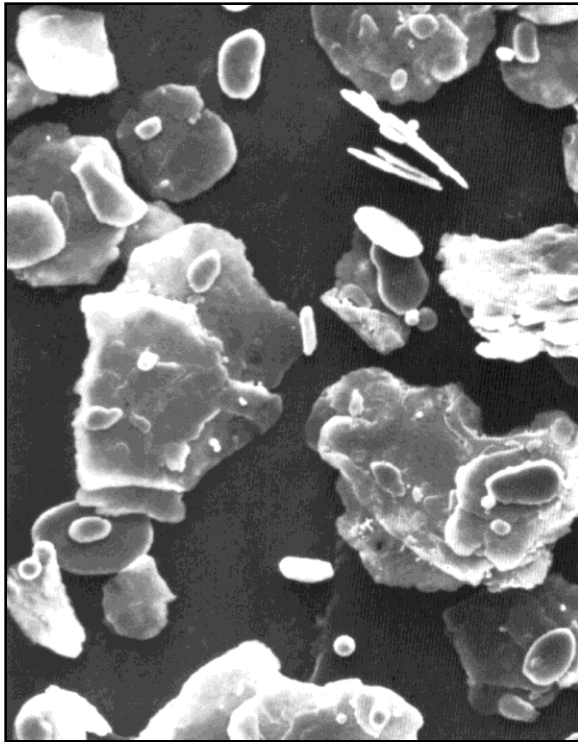
✓ Versterking voorziet in de versterking van:

- Corrosie weerstand
- Rek sterke
- Damp dichtheid
- Slijtage weerstand
- Temperatuur bereik

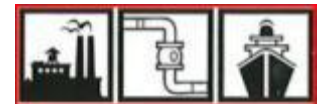


COMPOSIETEN

Same materials – different Geometrics

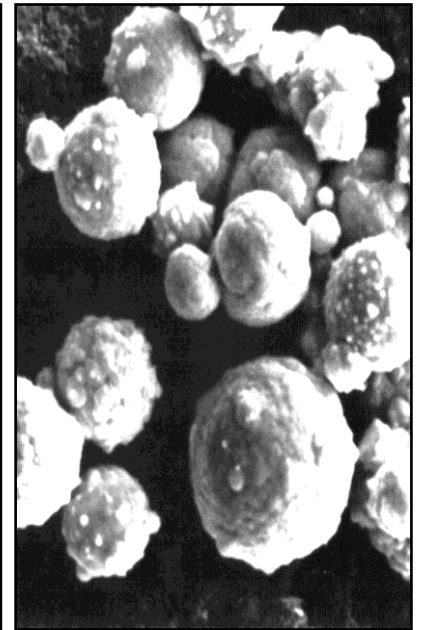
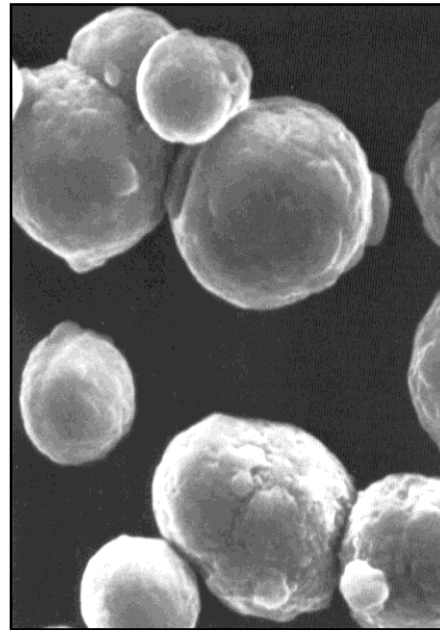
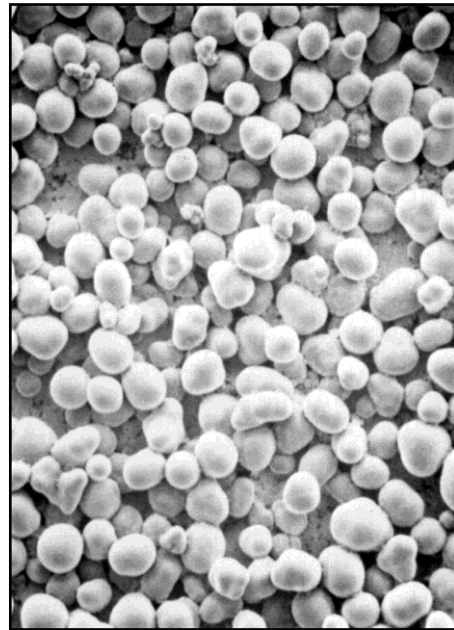
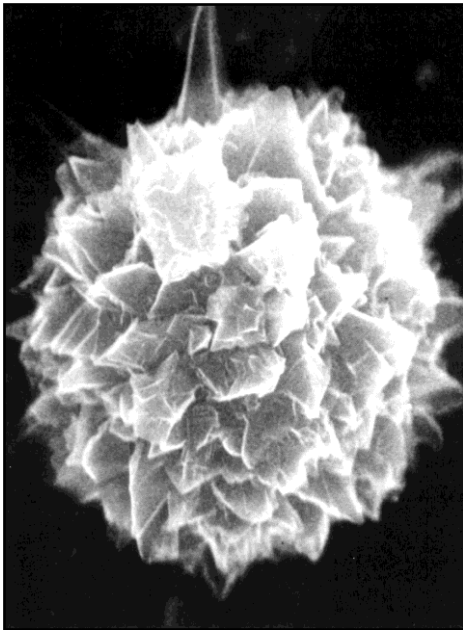


Flakes



COMPOSIETEN

Same materials – different Geometrics



Spherical Particles

