



# RECYCLING

Refuse incineration and water processing  
relies on **capilla**.





## THE PROBLEM

Erosion, cavitation, heat, pressure, fatigue, abrasion and corrosion slowly but surely reduce the process reliability, which results in less efficiency. This is frequently accompanied by component failure up to the total standstill of the plant, endangering the environment

More and more often, this results in longer lasting plant downtimes and lets operating costs rise to incalculable amounts.

## THE SOLUTION

**capilla**-products reduce plant downtimes, increase product quality, and thus raise productivity noticeably.

All **capilla**-products were created with more than 50 years of experience in forging, the most demanding welding application.

## TYPICAL APPLICATIONS

Pumps, valves, sealing elements, casings, flanges, tubings, wear protections, containers, tanks, boilers, vessels, solid fuel mills, bulk conveyors, turbines, digested sludge presses, desulphurizer.

Demanding welders all over the world put their trust in the **capilla**-quality: in maintenance, repairs and production.

**capilla** always delivers the most suitable product.



**capilla** - The number 1 for all demanding metal-workers.





Below you can find a brief extract of the stick-electrode range manufactured by **capilla**, which are specifically used in Recycling Companies. A number of other products, as well as solutions for other welding processes can alternatively be provided by **capilla**.

Product Description		Applications	Analysis [weight-%]	
<b>30 S</b> AWS A 5.1: E 6013	Medium-thick rutile-cellulose coated stick electrode for assembly and maintenance welding in all positions, especially suitable for vertical down welding. Good bridging over of gaps. Using recommended welding parameters leads to self-removing slag.	Fusion welding of general purpose constructional steel, boiler plates, pipe steel, ship structural steel, high tensile steel and cast steel such as: S 185-S 355 JOC, P 235 GH, P 265 GH, P 295 GH, P 210 N-P 360 N, S 255 NH-S 355 NH, P 255 NH-P 355 NH, GS 38-GS 52	C Mn Si Fe	max. 0,08 max. 0,5 max. 0,3 Rest
<b>310</b> AWS A 5.4: E 310-16	Rutile-basic coated electrode for welding of heat resistant austenitic steels. The weld metal is fully austenitic and scaling resistant up to 1200°C. Deposited material is not resistant to sulphurous gases.	Suitable for materials as:  1.4832, 1.4840, 1.4841, 1.4845, 1.4846, 1.4849, 1.4713, 1.4726, 1.4710, 1.4745, 1.4823.	C Cr Ni Mn Fe	max. 0,1 23,0-26,0 19,0-21,0 2,5-3,0 Rest
<b>54 W</b> EN 14700: E Fe 7-55-gpt	Basic coated Cr-Mo-V-alloyed stick electrode for tough and wear-resistant deposits on parts that are subject to abrasive wear and heavy impacts. Deposits without cracks and pinholes. Deposit thickness as required.	Hardfacing of dredger teeth, crusher jaws, screw conveyors, coal cutters, beaters, edge runners, hammers etc.	C Cr Mn Mo V Fe	0,5-0,8 7,0-10,0 0,5-0,7 0,5-1,0 1,0-1,2 Rest

Experts trust **capilla**.





**TÜV NORD**

# CERTIFICATE

Management system as per  
**DIN EN ISO 9001 : 2015**

In accordance with TÜV NORD CERT procedures, it is hereby certified that

**Capilla Schweißmaterialien GmbH**  
Westring 48 - 50  
33818 Leopoldshöhe  
Germany

**capilla**  
Internationale Schweißkompetenz  
Made in Germany

applies a management system in line with the above standard for the following scope

**Development, manufacture and sale of welding consumables**

Certificate Registration No. 04 100 960464  
Audit Report No. 3520 8477

Valid from 2018-02-20  
Valid until 2021-02-19  
Initial certification 1996

*Jenssen-Landolt*  
Certification Body  
at TÜV NORD CERT GmbH

Essen, 2018-01-29

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH    Langemarkstraße 20    45141 Essen    [www.tuev-nord-cert.com](http://www.tuev-nord-cert.com)

**IAF** **DAKKS**  
Deutsche  
Akkreditierungsstelle  
D-244-12007-01-01

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