

Test report: makro-etched slice of arc weldings

SLV-order-No.: 2017 5024 004

Dept.: Materials engineering

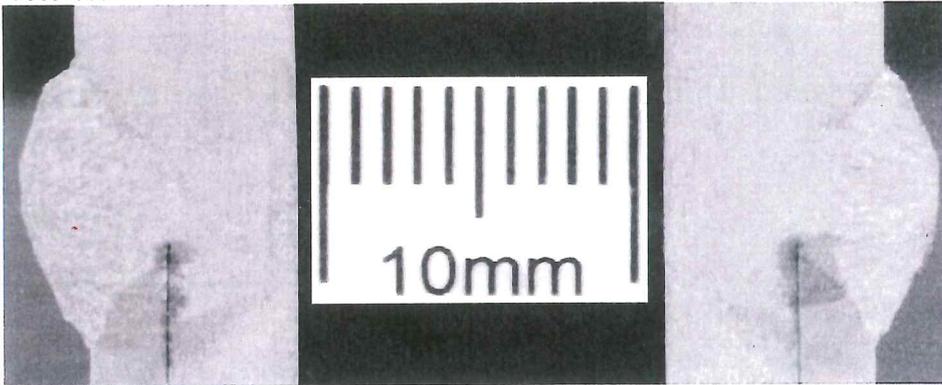
purchaser: GKN Service International GmbH
Ottensener Straße 150
D-22525 Hamburg

test objekt: Number: 102 / welded at: 21.12.2016 / in Service-Center: Powell International
dimensions [mm]: ø89x2,4

Metallographic evaluation

Parent material: **S355 (St52) WG:1.2** Etching agent: **Nital 3 %**
 Filler material: **?** Welder: **N.N.**
 Welding process: **135 (MAG)** Welding supervisor **N.N.**
 quality class: **GKN-specification dated 2013-01-29**

Test results:



Reference in accordance with DIN EN ISO 6520 ¹⁾

| | | | | | | | | | | | | |
|-----|-----------|------|------|---------|-----|-----|------|------|-----|--|--|--|
| 100 | 2011/2012 | 2013 | 2015 | 301/304 | 401 | 402 | 5011 | 5013 | 507 | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | |

evaluation:

requirements are fulfilled

requirements are not fulfilled

Tester:

Marquardt

Hamburg, dated

19.01.2017

W. Lamprécht, head of destructive testings

¹⁾ classification number according to DIN EN ISO 6520

| | | | | |
|------------------|-------------------------------------|------------------------|--------------------------|-------------------------|
| 100 cracks | 2013 clustered (localized) porosity | 301 Slag inclusion | 402 lack of penetration | 5013 shrinkage groove |
| 2011/12 gas pore | 2015 elongated cavity | 304 metallic inclusion | 5011 continuous undercut | 507 linear misalignment |

The tests refer exclusively to the inspected item at inspection time.

The test report may only duplicated in unabbreviated form.

Only results can be evaluated which are detectable with the applied test method.