

Werkstoff-Datenblatt

Für die Eloxierbarkeit von Aluminiumlegierungen gelten die nebenstehenden Empfehlungen der DIN-Datenblätter.

EQ = Eloxalqualität nach DIN 17611

• = Verschleißfeste Oberflächen durch Harteloxal möglich

– = Bei fehlenden Kennziffern keine weiteren Literaturangaben vorhanden

Bedeutung der Kennzahlen:

1 = ausgezeichnet

2 = gut

3 = annehmbar

4 = unzureichend

5 = nicht empfehlenswert

6 = ungeeignet

| Knetlegierungen DIN EN 573-3 | | | | | | |
|------------------------------|--------|--------------|--------------|------------------|-----------|-----|
| Euronorm | DIN | Bezeichnung | | Anodisierbarkeit | | |
| | | neu | alt | dekorativ | technisch | HC |
| EN AW-1050 | 30.255 | Al99,5 | – | 2 (EQ=1) | 1 | – |
| EN AW-1070 | 30.275 | Al99,7 | – | 1 | 1 | – |
| EN AW-1080 | 3.085 | Al99,8(A) | – | 1 | 1 | – |
| EN AW-1098 | 30.385 | Al99,98 | Al99,98R | – | – | – |
| EN AW-1200 | 30.205 | Al99,0 | – | 3 | 1 | – |
| EN AW-1350 | 30.257 | EAl99,5(A) | E-Al | – | – | – |
| EN AW-2007 | 31.645 | AlCu4PbMgMn | AlCuMgPb | – | – | 5 • |
| EN AW-2011 | 31.655 | AlCu6BiPb | AlCuBiPb | 6 | – | 5 • |
| EN AW-2014 | 31.255 | AlCu4SiMg | AlCuSiMn | 6 | – | 3 – |
| EN AW-2017 | 31.325 | AlCu4MgSi(A) | AlCuMg1 | 6 | – | 2 – |
| EN AW-2024 | 31.355 | AlCu4Mg1 | AlCuMg2 | 6 | – | 2 – |
| EN AW-2117 | 31.305 | AlCu2,5Mg | AlCu2,5Mg0,5 | – | – | – |
| EN AW-3003 | 30.517 | AlMn1Cu | AlMnCu | 4 | – | 1 – |
| EN AW-3004 | 30.526 | AlMn1Mg1 | – | 4 | – | 1 – |
| EN AW-3005 | 30.525 | AlMn1Mg0,5 | – | 4 | – | 1 – |
| EN AW-3103 | 30.515 | AlMn1 | – | 4 | – | 1 – |
| EN AW-3105 | 30.505 | AlMn0,5Mg0,5 | – | – | – | – |
| EN AW-3207 | 30.506 | AlMn0,6 | – | – | – | – |
| EN AW-5005 | – | AlMg1(B) | – | 3 | – | 1 – |
| EN AW-5005 | 33.315 | AlMg1(C) | AlMg1 | 2 (EQ=1) | – | 1 – |
| EN AW-5019 | 33.555 | AlMg5 | – | 4 | – | 1 – |
| EN AW-5049 | 33.527 | AlMg2Mn0,8 | – | 4 | – | 2 – |
| EN AW-5041 | 33.326 | AlMg2(B) | AlMg1,8 | – | – | – |
| EN AW-5052 | 33.523 | AlMg2,5 | – | 2 | – | 1 – |
| EN AW-5083 | 33.547 | AlMg4,5Mn0,3 | AlMg4,5Mn | 4 | – | 2 – |
| EN AW-5086 | 33.545 | AlMg4 | AlMg4Mn | 3 | – | 1 – |
| EN AW-5182 | 33.549 | AlMg4,5Mn0,3 | AlMg5Mn | – | – | – |
| EN AW-5241 | 33.525 | AlMg2 | AlMg2Mn0,3 | 4 | – | 1 – |
| EN AW-5454 | 33.537 | AlMg3Mn | AlMg2,7Mn | 4 | – | 2 – |
| EN AW-5754 | 33.535 | AlMg3 | – | 2 (EQ=1) | – | 1 – |
| EN AW-6005 | 33.210 | AlSiMg(A) | AlMgSi0,7 | 2 | – | 1 – |
| EN AW-5012 | 30.615 | AlMgSiPb | AlMgSiPb | bis 10µm | – | 3 • |
| EN AW-6060 | 33.206 | AlMgSi | AlMgSi0,5 | 1 (EQ) | – | 1 – |

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|---------------------------------------------------------------|------------|--------------------|-------------|-------------------------|-----------|----|---|
| EN AW-6061 | 33.211 | AlMg1SiCu | – | | 3 | 1 | – |
| EN AW-6082 | 32.315 | AlSi1MgMn | AlMgSi1 | | 3 | 1 | – |
| EN AW-6101 | 33.207 | EAlMgSi(B) | E-AlMgSi0,5 | – | – | – | – |
| EN AW-7020 | 34.335 | AlZn4,5Mg1 | AlZn4,5Mg1 | | 3 | 2 | – |
| EN AW-7022 | 34.345 | AlZn5Mg3Cu | AlZnMgCu0,5 | | 6 | 2 | – |
| EN AW-7075 | 34.365 | AlZn5,5MgCu | AlZnMgCu1,5 | | 6 | 3 | – |
| EN AW-8011 | 30.915 | AlFeSi(A) | AlFeSi | – | – | – | – |
| Gußlegierungen DIN EN 1706 | | | | | | | |
| Euronorm | DIN | Bezeichnung | | Anodisierbarkeit | | | |
| | 1725-1 | neu | alt | dekorativ | technisch | HC | |
| EN AC-21000 | 31.371 | G-/GK-/GF-A | – | – | | 3 | – |
| EN AC-21100 | 31.841 | G-/GK-AlCu4 | – | – | | 3 | – |
| EN AC-42100 | 32.371 | G-/GK-/GF-A | – | – | | 4 | – |
| EN AC-42200 | – | AlSi7Mg0,6 | – | – | | 4 | – |
| EN AC-43000 | 32.381 | G-/GK-AlSi10 | – | – | | 5 | – |
| EN AC-43200 | 32.383 | G-/GK-AlSi10 | – | – | | 5 | – |
| EN AC-43300 | 32.373 | G-/GK-/GF-A | – | – | | 5 | – |
| EN AC-43400 | 32.382 | G-/GK-/GF-A | – | – | | 5 | – |
| EN AC-44000 | 32.211 | G-/GK-AlSi11 | – | – | | 5 | – |
| EN AC-44200 | 32.373 | G-/GK-AlSi12 | – | – | | 5 | – |
| EN AC-4300 | 32.582 | GD-AlSi12(Fe | – | – | | 5 | – |
| EN AC-45000 | 32.151 | G-/GK-AlSi6Cu | – | – | | 4 | – |
| EN AC-46000 | 32.163 | GD-AlSi9Cu3 | – | – | | 5 | – |
| EN AC-46200 | 32.163 | G-/GK-AlSi8Cu | – | – | | 5 | – |
| EN AC-47000 | 32.583 | G-/GK-AlSi12 | – | – | | 5 | – |
| EN AC-47100 | 322.982 | GD-AlSi12Cu | – | – | | 5 | – |
| EN AC-48000 | – | GK-AlSi12Cu | – | – | | 5 | – |
| EN AC-51100 | 33.541 | G-/GK-/GF-A | – | – | | 1 | – |
| EN AC-51200 | 33.292 | GD-AlMg9 | – | – | | 2 | – |
| EN AC-51300 | 33.561 | G-/GK-AlMg5 | – | – | | 1 | – |
| EN AC-51400 | 33.261 | G-/GK-AlMg5 | – | – | | 2 | – |
| EN AC-71000 | – | AlZn5Mg | – | – | | 2 | – |
| Gußlegierungen DIN EN 1725 (ersetzt durch DIN EN 1706) | | | | | | | |
| Euronorm | DIN | Bezeichnung | | Anodisierbarkeit | | | |
| | 1725-1 | neu | alt | dekorativ | technisch | HC | |
| – | 32.581 | G-/GK-AlSi12 | – | 6 | 4 | 4 | |
| – | 32.583 | G-/GK-AlSi12 | – | 6 | 4 | 4 | |
| – | 32.381 | G-/GK-AlSi10 | – | 4 | 3 | 4 | |
| – | 32.383 | G-/GK-AlSi10 | – | 6 | 4 | 4 | |
| – | 32.163 | G-/GK-AlSi9Cu | – | 6 | 6 | 4 | |
| – | 32.153 | G-/GK-AlSi6Cu | – | 6 | 6 | 4 | |
| – | 32.211 | G-/GK-AlSi11 | – | 6 | 4 | 4 | |
| – | 32.373 | G-/GK-AlSi9Mg | – | 6 | 4 | 4 | |
| – | 32.371 | G-/GK-/GF-A | – | 6 | 4 | 4 | |
| – | 31.841 | G-/GK-AlCu4 | – | 6 | 5 | 4 | |
| – | 31.371 | G-/GK-/GF-A | – | 6 | 5 | 4 | |
| – | 33.541 | G-/GK-/GF-A | – | 1 | 1 | 1 | |
| – | 33.241 | G-/GK-/GF-A | – | 2 | 1 | 1 | |
| – | 33.561 | G-/GK-AlMg5 | – | 1 | 1 | 1 | |

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|---|--------|--------------|---|---|---|---|
| - | 33.261 | G-/GK-ALMg5 | - | 2 | 1 | 1 |
| - | 32.341 | G-/GK-ALSi5M | - | 4 | 2 | 3 |
| - | 32.163 | GD-ALSi9Cu3 | - | 6 | 6 | 4 |
| - | 32.982 | GD-ALSi12(Cu | - | 6 | 6 | 4 |
| - | 32.582 | GD-ALSi12 | - | 6 | 5 | 4 |
| - | 32.382 | GD-ALSi10Mg | - | 6 | 4 | 4 |
| - | 33.292 | GD-ALMg9 | - | 4 | 2 | 2 |