

KRM - Product range - Mill finish

| STRIP | | | |
|----------------|------------|-------------------------|-------------------|
| THICKNESS (mm) | WIDTH (mm) | COIL I.D. (mm) | COIL SIZE (kg/mm) |
| 0.40 - 1.60 | 25 -50 | 254/305/406/508 | 1.6 |
| 0.60 - 2.00*) | 50 - 1540 | 254/305/355/406/508/600 | 4.8**) |
| 0.40 - 2.00*) | 50 - 1540 | 400/500/600 | 4.8 |

*) Min. 0.30 mm and max. 2.5 mm on special request

***) 3.9 kg/mm for widths above 1300 mm

| CUT TO LENGTH SHEET | | | |
|---------------------|-------------|---------------|----------|
| THICKNESS (mm) | WIDTH (mm) | LENGTH (mm) | HARDNESS |
| 0.50 - 2.00*) | 320 -1540 | 610 - 4000**) | Not soft |
| 1.50 - 2.00***) | 1000 - 1540 | 610 - 4000**) | Soft |

*) Up to 3.0 mm on 1050 H14/H24

***) Lengths 4000 mm - 6000 mm on special request

****) Flatness according to EN 485-4 cannot be guaranteed

Stucco embossed strip and sheet can be supplied in co-operation with HRM.

ALLOY: 1050 (HA 1050 25)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|------------|------|------|------|------|------|------|------|-----------|
| | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Others |
| | Each/total | | | | | | | | |
| Min. | 99.50 | | | | | | | | |
| Max. | | 0.25 | 0.40 | 0.05 | 0.05 | 0.05 | 0.07 | 0.05 | 0.03/0.05 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | | | | |
| | | min. | max. | typ. | min. | max. | typ. | min. | typ. | typ. | min. |
| 0 | 0.40-0.50 | 20 | | 32 | 65 | 95 | 75 | 20 | 38 | 23 | 0 t |
| | 0.51-1.50 | 20 | | 32 | 65 | 95 | 75 | 22 | 40 | 23 | 0 t |
| | 1.51-2.05 | 20 | | 32 | 65 | 95 | 75 | 26 | 40 | 23 | 0 t |
| H12 | 0.40-0.50 | 65 | | 95 | 85 | 125 | 100 | 2 | 6 | 30 | 0.5 t |
| | 0.51-1.50 | 65 | | 95 | 85 | 125 | 100 | 4 | 9 | 30 | 0.5 t |
| | 1.51-2.05 | 65 | | 95 | 85 | 125 | 100 | 5 | 9 | 30 | 0.5 t |
| H14 | 0.40-0.50 | 85 | | 105 | 105 | 145 | 115 | 2 | 4 | 33 | 1.0 t |
| | 0.51-1.50 | 85 | | 105 | 105 | 145 | 115 | 3 | 6 | 33 | 1.0 t |
| | 1.51-3.05 | 85 | | 105 | 105 | 145 | 115 | 4 | 8 | 33 | 1.0 t |
| H16 | 0.40-0.50 | 100 | | 120 | 120 | 160 | 135 | 1 | 3 | 35 | 1.0 t |
| | 0.51-1.50 | 100 | | 120 | 120 | 160 | 135 | 2 | 3 | 35 | 1.0 t |
| | 1.51-2.05 | 100 | | 120 | 120 | 160 | 135 | 3 | 4 | 35 | 1.0 t |
| H18 | 0.40-0.50 | 120 | | 140 | 140 | | 155 | 1 | 3 | 38 | 1.0 t |
| | 0.51-1.50 | 120 | | 140 | 140 | | 155 | 2 | 3 | 38 | 2.0 t |
| | 1.51-2.05 | 120 | | 140 | 140 | | 155 | 2 | 4 | 38 | 3.0 t |
| H19 | 0.40-0.50 | 130 | | 190 | 150 | | 210 | 1 | 3 | | |
| | 0.51-1.50 | 130 | | 175 | 150 | | 190 | 1 | 4 | | |
| | 1.51-2.05 | 130 | | 170 | 150 | | 180 | 1 | 5 | | |
| * H24 | 0.80-1.50 | 75 | | 120 | 110 | 150 | 135 | 4 | 10 | 37 | 0.5 t |
| | 1.51-2.05 | 75 | | 130 | 110 | 150 | 140 | 5 | 9 | 37 | 1.0 t |
| * H26 | 0.80-1.50 | 90 | | 125 | 120 | 160 | 140 | 3 | 9 | 42 | 1.0 t |
| | 1.51-2.05 | 90 | | 135 | 120 | 160 | 150 | 4 | 10 | 42 | 1.5 t |

1) For information only

* Minimum thickness for partial annealed material: 0.80 mm

This alloy is not suitable for decorative anodizing, spinning and deep drawing with controlled earing.

ALLOY: 1200 (HA 1200 45)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|------------|----------------|----|------|------|----|------|------|-----------|
| | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Others |
| | Each/Total | | | | | | | | |
| Min. | 99.0 | | | | | | | | |
| Max. | | Si + Fe ≤ 0.95 | | 0.05 | 0.05 | | 0.10 | 0.05 | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|----------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|------|---------------------------|------------------------------|
| Temper | Thicknes (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | min. | typ. | typ. | min. |
| | | min. | max. | typ. | min. | max. | typ. | | | | |
| 0 | 0.40-0.50 | 25 | | 38 | 75 | 105 | 95 | 19 | 30 | 25 | 0 t |
| | 0.51-1.50 | 25 | | 38 | 75 | 105 | 95 | 21 | 35 | 25 | 0 t |
| | 1.51-2.05 | 25 | | 38 | 75 | 105 | 95 | 24 | 38 | 25 | 0 t |
| H12 | 0.40-0.50 | 75 | | 105 | 95 | 135 | 115 | 2 | 10 | 32 | 0.5 t |
| | 0.51-1.50 | 75 | | 105 | 95 | 135 | 115 | 4 | 12 | 32 | 0.5 t |
| | 1.51-2.05 | 75 | | 105 | 95 | 135 | 115 | 5 | 15 | 32 | 0.5 t |
| H14 | 0.40-0.50 | 95 | | 115 | 115 | 155 | 125 | 2 | 5 | 35 | 1.0 t |
| | 0.51-1.50 | 95 | | 115 | 115 | 155 | 125 | 3 | 6 | 35 | 1.0 t |
| | 1.51-2.05 | 95 | | 115 | 115 | 155 | 125 | 4 | 9 | 35 | 1.0 t |
| H16 | 0.40-0.50 | 115 | | 140 | 130 | 170 | 155 | 1 | 3 | 41 | |
| | 0.51-1.50 | 115 | | 140 | 130 | 170 | 155 | 2 | 4 | 41 | |
| | 1.51-2.05 | 115 | | 140 | 130 | 170 | 155 | 3 | 5 | 41 | |
| H18 | 0.40-0.50 | 130 | | 150 | 150 | | 165 | 1 | 2 | 44 | |
| | 0.51-1.50 | 130 | | 150 | 150 | | 165 | 2 | 3 | 44 | |
| | 1.51-2.05 | 130 | | 150 | 150 | | 165 | 2 | 4 | 44 | |
| H19 | 0.40-0.50 | 140 | | | 160 | | | 1 | | | |
| | 0.51-1.50 | 140 | | | 160 | | | 1 | | | |
| | 1.51-2.05 | 140 | | 190 | 160 | | 205 | 1 | 4 | | |

1) For information only

This alloy is not suitable for decorative anodizing. The alloy has been developed for the continuous casting (CC) process and gives increased ductility due to grain size. A better alternative than alloy 1050.

ALLOY: 1070 03 (HA 107003)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|-----------|------|------|------|------|------|------|------|-----------|
| | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Others |
| | EachTotal | | | | | | | | |
| Min. | 99.70 | | | | | | | | |
| Max. | | 0.20 | 0.25 | 0.01 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03/0.05 |

| MECHANICAL PROPERTIES | | | | | | | | | | |
|-----------------------|-----------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | | | |
| | | min. | max. | typ. | min. | max. | typ. | min. | typ. | min. |
| 0 | 0.40-0.50 | 15 | | 35 | 60 | 90 | 70 | 23 | 21 | 0 t |
| | 0.51-1.50 | 15 | | 35 | 60 | 90 | 70 | 25 | 21 | 0 t |
| | 1.51-2.05 | 15 | | 35 | 60 | 90 | 70 | 29 | 21 | 0 t |
| H12 | 0.40-0.50 | 55 | | 90 | 80 | 120 | 98 | 4 | 28 | 0.5 t |
| | 0.51-1.50 | 55 | | 90 | 80 | 120 | 98 | 5 | 28 | 0.5 t |
| | 1.51-2.05 | 55 | | 90 | 80 | 120 | 98 | 6 | 28 | 0.5 t |
| H14 | 0.40-0.50 | 70 | | 95 | 100 | 140 | 105 | 4 | 32 | 0.5 t |
| | 0.51-1.50 | 70 | | 95 | 100 | 140 | 105 | 4 | 32 | 0.5 t |
| | 1.51-2.05 | 70 | | 95 | 100 | 140 | 105 | 5 | 32 | 1.0 t |
| H16 | 0.40-0.50 | 90 | | 105 | 110 | 150 | 115 | 2 | 34 | 1.0 t |
| | 0.51-1.50 | 90 | | 105 | 110 | 150 | 115 | 2 | 34 | 1.0 t |
| | 1.51-2.05 | 90 | | 105 | 110 | 150 | 115 | 3 | 34 | 1.0 t |
| H18 | 0.40-0.50 | 105 | | 115 | 125 | | 130 | 2 | 36 | |
| | 0.51-1.50 | 105 | | 115 | 125 | | 130 | 2 | 36 | |
| | 1.51-2.05 | 105 | | 115 | 125 | | 130 | 2 | 36 | |
| H19 | 0.40-0.50 | 115 | | | 135 | | | 1 | | |
| | 0.51-1.50 | 115 | | | 135 | | | 2 | | |
| | 1.51-2.05 | 115 | | | 135 | | | 2 | | |

1) For information only

This alloy is not suitable for decorative anodizing, spinning and deep drawing with controlled earing.

ALLOY: 1070 EC (HYDEC 1070/1070 14)

| CHEMICAL COMPOSITION | | | | | | | | | | | |
|----------------------|-------|------|------|------|-------|------|-------|------|-------|-------|----------------------|
| | Al | Si | Fe | Cu | Mn | Mg | Cr | Zn | V | Ti | Others Each/Total |
| Min. | 99.70 | | | | | | | | | | |
| Max. | | 0.08 | 0.23 | 0.01 | 0.004 | 0.01 | 0.004 | 0.02 | 0.004 | 0.008 | 0.03/0.05 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|---------------------------|------------------------------|-------------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | Hardness Brinell 1) | Bend radius 180° 1) | Electrical Conductivity %IACS |
| | | Rp0.2 | | | Rm | | | min. | typ. | min . | min. |
| | | min. | max. | typ. | min. | max. | typ. | | | | |
| 0 | 0.40-0.50 | 15 | | 35 | 60 | 90 | 70 | 23 | 21 | 0 t | 62.7 |
| | 0.51-1.50 | 15 | | 35 | 60 | 90 | 70 | 25 | 21 | 0 t | |
| | 1.51-2.05 | 15 | | 35 | 60 | 90 | 70 | 29 | 21 | 0 t | |
| H12 | 0.40-0.50 | 55 | | 90 | 80 | 120 | 98 | 3 | 28 | 0.5 t | 62.6 |
| | 0.51-1.50 | 55 | | 90 | 80 | 120 | 98 | 5 | 28 | 0.5 t | |
| | 1.51-2.05 | 55 | | 90 | 80 | 120 | 98 | 6 | 28 | 0.5 t | |
| H14 | 0.40-0.50 | 70 | | 95 | 100 | 140 | 105 | 2 | 32 | 0.5 t | 62.5 |
| | 0.51-1.50 | 70 | | 95 | 100 | 140 | 105 | 3 | 32 | 0.5 t | |
| | 1.51-2.05 | 70 | | 95 | 100 | 140 | 105 | 4 | 32 | 1.0 t | |
| H16 | 0.40-0.50 | 90 | | 105 | 110 | 150 | 115 | 2 | 34 | 1.0 t | 62.3 |
| | 0.51-1.50 | 90 | | 105 | 110 | 150 | 115 | 2 | 34 | 1.0 t | |
| | 1.51-2.05 | 90 | | 105 | 110 | 150 | 115 | 3 | 34 | 1.0 t | |
| H18 | 0.40-0.50 | 105 | | 115 | 125 | | 130 | 1 | 36 | | 62.0 |
| | 0.51-1.50 | 105 | | 115 | 125 | | 130 | 2 | 36 | | |
| | 1.51-2.05 | 105 | | 115 | 125 | | 130 | 2 | 36 | | |
| H19 | 0.40-0.50 | 115 | | 180 | 135 | | 190 | 1 | | | |
| | 0.51-1.50 | 115 | | 170 | 135 | | 170 | 1 | | | |
| | 1.51-2.05 | 115 | | 155 | 135 | | 155 | 2 | | | |

1) For information only

This alloy is for electrotechnical purposes only.

ALLOY: 3003 (HA 300301)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|-----|-----|------|-----|----|------|----|------------|-----------|
| | | | | | | | | | Others |
| Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Each/Total | |
| Min. | | | 0.05 | 1.0 | | | | | |
| Max. | 0.6 | 0.7 | 0.20 | 1.5 | | 0.10 | | | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | min. | typ. | typ. | min. |
| | | min. | max. | typ. | min. | max. | typ. | | | | |
| H14 | 0.40-0.50 | 125 | | 145 | 145 | 185 | 160 | 2 | 4 | 50 | 2.0 t |
| | 0.51-1.50 | 125 | | 145 | 145 | 185 | 160 | 2 | 6 | 50 | 2.0 t |
| | 1.51-2.05 | 125 | | 145 | 145 | 185 | 160 | 3 | 8 | 50 | 2.0 t |
| H16 | 0.40-0.50 | 150 | | 170 | 170 | 210 | 185 | 1 | 3 | 53 | 2.5 t |
| | 0.51-1.50 | 150 | | 170 | 170 | 210 | 185 | 2 | 4 | 53 | 2.5 t |
| | 1.51-2.05 | 150 | | 170 | 170 | 210 | 185 | 2 | 5 | 53 | 2.5 t |
| H18 | 0.40-0.50 | 170 | | 190 | 190 | | 215 | 1 | 3 | 58 | |
| | 0.51-1.50 | 170 | | 190 | 190 | | 215 | 2 | 3 | 58 | |
| | 1.51-2.05 | 170 | | 190 | 190 | | 215 | 2 | 3 | 58 | |
| H19 | 0.40-0.50 | 180 | | 260 | 210 | | 280 | 1 | 2 | | |
| | 0.51-1.50 | 180 | | 250 | 210 | | 270 | 2 | 3 | | |
| | 1.51-2.05 | 180 | | 230 | 210 | | 245 | 2 | 4 | | |
| H26 | 0.40-0.50 | 140 | | 170 | 170 | 210 | 190 | 2 | 5 | 55 | 2.0 t |
| | 0.51-1.50 | 140 | | 170 | 170 | 210 | 190 | 3 | 6 | 55 | 2.0 t |
| | 1.51-2.05 | 140 | | 180 | 170 | 210 | 200 | 3 | 7 | 55 | 2.0 t |
| H28 | 0.40-0.50 | 160 | | 195 | 190 | | 215 | 2 | 6 | 57 | |
| | 0.51-1.50 | 160 | | 195 | 190 | | 215 | 2 | 7 | 57 | |
| | 1.51-2.05 | 160 | | 195 | 190 | | 215 | 3 | 8 | 57 | |
| H29 | 0.40-0.50 | 200 | | | 230 | | | 2 | | 68 | |
| | 0.51-1.50 | 200 | | 250 | 230 | | 265 | 2 | 4 | 66 | |
| | 1.51-2.05 | 200 | | | 230 | | | 2 | | 62 | |
| * H66 | 0.40-0.50 | 140 | | 170 | 170 | 210 | 190 | 2 | 5 | 55 | |
| | 0.51-1.50 | 140 | | 170 | 170 | 210 | 190 | 3 | 6 | 55 | |
| | 1.51-2.05 | 140 | | 175 | 170 | 210 | 195 | 3 | 7 | 55 | |
| * H68 | 0.40-0.50 | 160 | | 200 | 185 | | 225 | 2 | 4 | 59 | |
| | 0.51-1.50 | 160 | | 200 | 185 | | 220 | 2 | 5 | 59 | |
| | 1.51-2.05 | 160 | | 190 | 185 | | 225 | 3 | 6 | 59 | |

1) For information only

* Improved surface quality compared to H26/H28. Bending qualities better than H16/H18, but not as good as H26/H28.

This alloy is not suitable for decorative anodizing, spinning and deep drawing with controlled earing.

ALLOY: 3103 (HA 310301)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|------|-----|------|-----|------|------|----|------------|-----------|
| | | | | | | | | | Others |
| Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Each/Total | |
| Min. | | | | 0.9 | | | | | |
| Max. | 0.50 | 0.7 | 0.10 | 1.5 | 0.30 | 0.20 | | | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | min. | typ. | typ. | min. |
| | | min. | max. | typ. | min. | max. | typ. | | | | |
| H14 | 0.40-0.50 | 120 | | 145 | 140 | 180 | 160 | 2 | 4 | 50 | 2.0 t |
| | 0.51-1.50 | 120 | | 145 | 140 | 180 | 160 | 2 | 6 | 50 | 2.0 t |
| | 1.51-2.05 | 120 | | 145 | 140 | 180 | 160 | 3 | 8 | 50 | 2.0 t |
| H16 | 0.40-0.50 | 145 | | 170 | 160 | 200 | 185 | 1 | 3 | 53 | 2.5 t |
| | 0.51-1.50 | 145 | | 170 | 160 | 200 | 185 | 2 | 4 | 53 | 2.5 t |
| | 1.51-2.05 | 145 | | 170 | 160 | 200 | 185 | 2 | 5 | 53 | 2.5 t |
| H18 | 0.40-0.50 | 165 | | 190 | 185 | | 215 | 1 | 3 | 58 | |
| | 0.51-1.50 | 165 | | 190 | 185 | | 215 | 2 | 3 | 58 | |
| | 1.51-2.05 | 165 | | 190 | 185 | | 215 | 2 | 3 | 58 | |
| H19 | 0.40-0.50 | 175 | | 270 | 200 | | 290 | 1 | 2 | | |
| | 0.51-1.50 | 175 | | 260 | 200 | | 280 | 2 | 2 | | |
| | 1.51-2.05 | 175 | | 250 | 200 | | 270 | 2 | 3 | | |
| H26 | 0.40-0.50 | 135 | | 170 | 160 | 200 | 190 | 2 | 5 | 55 | 2.0 t |
| | 0.51-1.50 | 135 | | 170 | 160 | 200 | 190 | 3 | 6 | 55 | 2.0 t |
| | 1.51-2.05 | 135 | | 180 | 160 | 200 | 200 | 3 | 7 | 55 | 2.0 t |
| H28 | 0.40-0.50 | 155 | | 195 | 185 | | 215 | 2 | 6 | 57 | |
| | 0.51-1.50 | 155 | | 195 | 185 | | 215 | 2 | 7 | 57 | |
| | 1.51-2.05 | 155 | | 195 | 185 | | 215 | 3 | 8 | 57 | |
| H29 | 0.40-0.50 | 200 | | | 230 | | | 2 | | 68 | |
| | 0.51-1.50 | 200 | | | 230 | | | 2 | | 66 | |
| | 1.51-2.05 | 200 | | | 230 | | | 2 | | 62 | |
| * H66 | 0.40-0.50 | 145 | | 170 | 160 | 210 | 190 | 2 | 5 | 55 | |
| | 0.51-1.50 | 145 | | 170 | 160 | 210 | 190 | 3 | 6 | 55 | |
| | 1.51-2.05 | 145 | | 175 | 160 | 210 | 195 | 4 | 7 | 55 | |
| * H68 | 0.40-0.50 | 155 | | 200 | 185 | | 225 | 2 | 4 | 59 | |
| | 0.51-1.50 | 155 | | 200 | 185 | | 225 | 2 | 5 | 59 | |
| | 1.51-2.05 | 155 | | 190 | 185 | | 225 | 3 | 6 | 59 | |

1) For information only

* Improved surface quality compared to H26/H28. Bending qualities better than H16/H18, but not as good as H26/H28.

This alloy is not suitable for decorative anodizing, spinning and deep drawing with controlled earing.

ALLOY: 3005 (HA 3005 01)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|----|-----|-----|------|-----|------|------|------|------------|
| | | | | | | | | | Others |
| | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Each/Total |
| Min. | | | | | 1.0 | 0.20 | | | |
| Max. | | 0.6 | 0.7 | 0.30 | 1.5 | 0.6 | 0.25 | 0.10 | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | min. | typ. | typ. | min. |
| | | min. | max. | typ. | min. | max. | typ. | | | | |
| H25 | 0.60-1.50 | 145 | | 195 | 180 | 230 | 225 | 4 | 9 | 62 | 1.0 t |
| | 1.51-2.00 | 145 | | 195 | 180 | 230 | 225 | 4 | 9 | 62 | 1.0 t |
| H26 | 0.60-1.50 | 160 | | 200 | 195 | 240 | 230 | 3 | 8 | 63 | 1.5 t |
| | 1.51-2.00 | 160 | | 200 | 195 | 240 | 230 | 3 | 8 | 63 | 1.5 t |
| H28 | 0.60-1.50 | 190 | | 215 | 220 | | 235 | 2 | 6 | 64 | 2.5 t |
| | 1.51-2.00 | 190 | | 215 | 220 | | 235 | 3 | 7 | 64 | 3.0 t |
| H66 | 0.60-1.50 | 160 | | 220 | 195 | | 240 | 3 | 6 | 65 | 2.0 t |
| | 1.51-2.00 | 160 | | 215 | 195 | | 235 | 3 | 7 | 65 | 2.5 t |
| H68 | 0.60-1.50 | 190 | | 225 | 220 | | 245 | 2 | 6 | 66 | 3.0 t |
| | 1.51-2.00 | 190 | | 225 | 220 | | 245 | 2 | 6 | 66 | 4.0 t |

1) For information only

This alloy is not suitable for decorative anodizing, spinning and deep drawing with controlled earing.

ALLOY: 5052 (HA 5052 10)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|----|------|------|------|------|-----|------|------|----------------------|
| | Al | Si | Fe | Cu | Mn | Mg | Cr | Zn | Others Each/Total |
| Min. | | | | | | 2.2 | 0.15 | | |
| Max. | | 0.25 | 0.40 | 0.10 | 0.10 | 2.8 | 0.35 | 0.10 | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | |
|-----------------------|--------------------|-------------------------------|------|------------------------------|------|------|-------------------|------|
| Temper | Thickness (mm)* | Yield Strength (MPa) Rp0.2 | | Tensile Strength (MPa) Rm | | | Elongation (%) | |
| | | min. | typ. | min. | max. | typ. | min. | typ. |
| O/H111 | 0.5-1.5 | 65 | | 170 | 215 | | 14 | |
| | 1.5-2.0 | 65 | 138 | 170 | 215 | 200 | 16 | 18 |
| H12 | 0.5-1.5 | 160 | | 210 | 260 | | 5 | |
| | 1.5-2.0 | 160 | | 210 | 260 | | 6 | |
| H14 | 0.5-1.5 | 180 | | 230 | 280 | | 3 | |
| | 1.5-2.0 | 180 | | 230 | 280 | | 4 | |
| H16 | 0.5-1.5 | 210 | | 250 | 300 | | 3 | |
| | 1.5-2.0 | 210 | | 250 | 300 | | 3 | |
| H18 | 0.5-1.5 | 240 | | 270 | | | 2 | |
| | 1.5-2.0 | 240 | | 270 | | | 2 | |
| H22/H32 | 0.5-1.5 | 130 | 191 | 210 | 260 | 237 | 6 | 8 |
| | 1.5-2.0 | 130 | | 210 | 260 | | 7 | |
| H24/H34 | 0.5-1.5 | 150 | 213 | 230 | 280 | 250 | 5 | 8 |
| | 1.5-2.0 | 150 | | 230 | 280 | | 6 | |
| H26/H36 | 0.5-1.5 | 180 | | 250 | 300 | | 4 | |
| | 1.5-2.0 | 180 | | 250 | 300 | | 5 | |
| H28/H38 | 0.5-1.5 | 210 | 302 | 270 | 329 | | 3 | 6 |
| | 1.5-2.0 | 210 | | 270 | | | 4 | |

* 0.5 - 1.6 mm as sheets, thicker by special request
0.5 - 2.0 mm as soft sheets

ALLOY: 8111 FOILSTOCK QUALITY (HA 8111 10)

| CHEMICAL COMPOSITION | | | | | | | | | |
|----------------------|------|------|------|------|------|-------|------|------|----------------------|
| | Al | Si | Fe | Cu | Mn | Mg | Zn | Ti | Others Each/Total |
| Min. | 98.7 | 0.60 | 0.45 | | | | | | |
| Max. | | 0.70 | 0.55 | 0.03 | 0.01 | 0.004 | 0.05 | 0.05 | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | |
|-----------------------|-------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|----------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | Hardness Brinell (1) |
| | | Rp0.2 | | | Rm | | | | |
| | | min. | max. | typ. | min. | max. | typ. | | |
| 0 | 0.40-1.60 | 30 | | 35 | 85 | 130 | 105 | 20 | 25 |
| | 0.61-1.00 | 30 | | 35 | 85 | 130 | 105 | 25 | 25 |
| H99 | 0.40-1.60 | 200 | | 230 | 225 | | 250 | 1 | 62 |
| | 0.61-1.00 | 200 | | 225 | 225 | | 245 | 2 | 62 |

1) For information only

This alloy is only suitable for foil applications.

ALLOY: 8111 (HA 8111 11)

| CHEMICAL COMPOSITION | | | | | | | | | | |
|----------------------|----|------|------|------|------|------|------|------|------|------------|
| | | | | | | | | | | Others |
| | Al | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Each/Total |
| Min. | | 0.30 | 0.40 | | | | | | | |
| Max. | | 1.1 | 1.0 | 0.10 | 0.20 | 0.05 | 0.05 | 0.10 | 0.08 | 0.05/0.15 |

| MECHANICAL PROPERTIES | | | | | | | | | | |
|-----------------------|-----------------------|----------------------|------|------|------------------------|------|------|---------------------------------------|---------------------------|------------------------------|
| Temper | Thickness (mm) | Yield Strength (MPa) | | | Tensile Strength (MPa) | | | Elongation (A ₅₀) % | Hardness Brinell 1) | Bend radius 180° 1) |
| | | Rp0.2 | | | Rm | | | | | |
| | | min. | max. | typ. | min. | max. | typ. | min. | typ. | min. |
| 0 | 0.40-0.50 | 30 | | 45 | 85 | 130 | 110 | 19 | 30 | 0 t |
| | 0.51-1.50 | 30 | | 45 | 85 | 130 | 110 | 21 | 30 | 0 t |
| | 1.51-2.05 | 30 | | 45 | 85 | 130 | 110 | 24 | 30 | 0 t |
| H12 | 0.40-0.50 | 85 | | 105 | 105 | 145 | 125 | 8 | 35 | 0 t |
| | 0.51-1.50 | 85 | | 105 | 105 | 145 | 125 | 10 | 35 | 0 t |
| | 1.51-2.05 | 85 | | 105 | 105 | 145 | 125 | 12 | 35 | 0 t |
| H14 | 0.40-0.50 | 110 | | 130 | 125 | 165 | 150 | 2 | 40 | 0.5 t |
| | 0.51-1.50 | 110 | | 130 | 125 | 165 | 150 | 3 | 40 | 0.5 t |
| | 1.51-2.05 | 110 | | 130 | 125 | 165 | 150 | 3 | 40 | 0.5 t |
| H16 | 0.40-0.50 | 130 | | 150 | 145 | 185 | 170 | 1 | 45 | 1.0 t |
| | 0.51-1.50 | 130 | | 150 | 145 | 185 | 170 | 2 | 45 | 1.0 t |
| | 1.51-2.05 | 130 | | 150 | 145 | 185 | 170 | 3 | 45 | 1.0 t |
| H18 | 0.40-0.50 | 145 | | 165 | 165 | | 185 | 1 | 50 | |
| | 0.51-1.50 | 145 | | 165 | 165 | | 185 | 2 | 50 | |
| | 1.51-2.05 | 145 | | 165 | 165 | | 185 | 2 | 50 | |
| H19 | 0.40-0.50 | 200 | | | 230 | | | 1 | 68 | |
| | 0.51-1.50 | 200 | | 240 | 230 | | 275 | 1 | 68 | |
| | 1.51-2.05 | 200 | | | 230 | | | 1 | 68 | |

1) For information only

Continuous casting is not suitable for decorative anodizing. The alloy has been developed for the continuous casting (CC) process and gives increased ductility due to grain size. (A possible alternative for alloy 3003/3103).