

GROUND FLAT STOCK

AISI - O1

Typical Analysis (Ave. values %)	C	Si	Mn	Cr	V	W
	0.95	0.25	1.1	0.55	0.10	0.55
NEAREST STANDARD	AS	DIN		BS	AISI	
	O1A	1.2510 100 MnCrW4		BO1	O1	

DESCRIPTION	Oil hardening, dimensionally stable tool steel, ground to (thickness) +/- 0.001" (width) +/- 0.005" (length) +1/16" supplied in 18" 36" & 500 & 1000 mm lengths. Used in cutting tools, dies, measuring tools, jigs and fixtures.
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HEAT TREATMENT	Anneal	710-750°C furnace cool	<table border="1"> <caption>Approximate data from the Hardness HRC vs Tempering temperature °C graph</caption> <thead> <tr> <th>Tempering temperature (°C)</th> <th>Hardness HRC</th> </tr> </thead> <tbody> <tr><td>20</td><td>65</td></tr> <tr><td>100</td><td>64.5</td></tr> <tr><td>200</td><td>62</td></tr> <tr><td>300</td><td>58</td></tr> <tr><td>400</td><td>52</td></tr> <tr><td>500</td><td>48</td></tr> </tbody> </table>	Tempering temperature (°C)	Hardness HRC	20	65	100	64.5	200	62	300	58	400	52	500	48
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500	48																
Stress relieve	650° air cool.																
Harden	780-820°C oil																
Temper	180-200°C																
Hardness	63-64 R/C																

SIZE RANGE	Flat	3/4" x 1/32" to 12" x 1" 18" lengths 1/2" x 1/32" to 12" x 1-1/2" 36" lengths 10 x 1 mm to 250 x 25 mm 500 mm lengths 50 x 2.5 mm to 100 x 25 mm 1000 mm lengths
	Square	3/16" to 2" 18" lengths 3/16" to 2" 36" lengths 3 to 50 mm 500 mm lengths 6 to 30 mm 1000 mm lengths

SILVER STEEL

AISI - O1

Typical Analysis (Ave. values %)	C	Si	Mn	Cr	V	W
	0.95	0.25	1.1	0.55	0.10	0.55
NEAREST STANDARD	AS	DIN		BS	AISI	
	O1A	1.2510 100 MnCrW4		BO1	O1	

DESCRIPTION	Oil hardening, dimensionally stable silver steel, ground to ISA 19 half plus half minus supplied in 36" & 1000mm lengths. Used in cutting tools, dies, measuring tools, jigs and fixtures.
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HEAT TREATMENT	Anneal	710-750°C furnace cool	<table border="1"> <caption>Approximate data from the Hardness HRC vs Tempering temperature °C graph</caption> <thead> <tr> <th>Tempering temperature (°C)</th> <th>Hardness HRC</th> </tr> </thead> <tbody> <tr><td>20</td><td>65</td></tr> <tr><td>100</td><td>64</td></tr> <tr><td>200</td><td>62</td></tr> <tr><td>300</td><td>58</td></tr> <tr><td>400</td><td>52</td></tr> <tr><td>500</td><td>48</td></tr> </tbody> </table>	Tempering temperature (°C)	Hardness HRC	20	65	100	64	200	62	300	58	400	52	500	48
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500	48																
Stress relieve	650° air cool.																
Harden	780-820°C oil																
Temper	180-200°C																
Hardness	63-64 R/C																

SIZE RANGE	Round	1/16" to 1-1/2"	36" lengths
		2 mm to 30 mm	1000 mm lengths

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