

PRODUCT SPECIFICATIONS OF HOT WORK TOOL STEEL

| AISI/ ASTM | MATERIAL | | | CHEMISTRY | | | | | | | | | HEAT TREATMENT DETAILS | | | | | |
|---------------|-------------|--------|-------|-----------|------|-----|------|------|-----|------|------|-----|-----------------------------|-------------------------|-----------|----------------------------|------------------------|----------------------------|
| | EN | DIN | JIS | C | SI | Mn | P | S | Cr | W | Mo | V | Annealing (Slow Cooling) | Quenchant (Hot Bath) | Quenching | Tempering (Air Cooling) | Annealed (HB) - Max | Quenched (Hrc) Tempered |
| H11 | X38CrMoV5-1 | 1.2343 | | 0.38 | 1.1 | 0.4 | 0.03 | 0.01 | 5 | | 1.25 | | 750-800 | OIL/AIR | 100-1040 | 500-600 | 240 | 48 |
| H12 | X40CrMoV5-1 | 1.2344 | SKD61 | 0.40 | 1.1 | 0.4 | 0.03 | 0.01 | 5.2 | | 1.4 | 0.9 | 800-850 | OIL/AIR | 1000-1085 | 500-600 | 230 | 52 |
| H13 | | 1.2606 | SKD62 | 0.39 | 1.1 | 0.4 | 0.03 | 0.01 | 5.2 | 1.25 | 1.4 | | 800-870 | OIL/AIR | 1000-1050 | 500-600 | 230 | 52 |
| L6 | 56NiCrMoV7 | 1.2714 | SKT4 | 0.55 | 0.25 | 0.8 | 0.03 | 0.02 | 1.2 | | 0.4 | 0.2 | 750-800 | OIL | 830-850 | 400-650 | 240 | 50 |
| H21 | X30WCrV9-3 | 1.2581 | | 0.35 | 0.25 | 0.3 | 0.03 | 0.03 | 2.7 | 9 | | 0.1 | 750-800 | OIL/AIR | 1070-1150 | 500-600 | 240 | 51 |