

Cutting Nozzles

NOZZLE

- Hard drawn Tellurium copper used in one piece nozzles
- withstands heat & wear
- out lasts any copper nozzles
- One piece nozzle has swaged interior
- Gas passages are mirror smooth with internal angles rounded
- Non-turbulent more efficient gas flow.
- Clean smooth cuts with minimal kerf loss
- Preheat ports are closely spaced around cutting orifice
- For greater concentration of preheat flames.
- Long parallel preheat passages
- Permit redressing of nozzle without affecting performance

ANM (Acetylene) Nozzle for NM 250 / NM 400

| NOZZLE THICKNESS (inch) | PLATE THICKNESS (mm) |
|-------------------------|----------------------|
| 1/32 | 6 |
| 3/64 | 12 |
| 1/16 | 25,50,75 |
| 5/64 | 100 |
| 3/32 | 150 |
| 1/8 | 200,250,300 |



AGNM (Gouging) Nozzle for NM 400

| NOZZLE width (mm) | Maximum Groove Width (mm) |
|-------------------|---------------------------|
| 13 | 8 |
| 19 | 11 |
| 25 | 12 |



PNM (LPG) Nozzle for NM 250 / NM 400

| NOZZLE (inch) | PLATE THICKNESS (mm) |
|---------------|----------------------|
| 1/32 | 6 |
| 3/64 | 12 |
| 1/16 | 25,50,75 |
| 5/64 | 100 |
| 3/32 | 150 |
| 1/8 | 250 |



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A-Type (Acetylene) Nozzle for Cutogen 5

| NOZZLE SIZE | PLATE THICKNESS (mm) |
|-------------|----------------------|
| A8 (1/32") | 6 |
| A12 (3/64") | 12 |
| A16 (1/16") | 50,75,100 |
| A20 (5/64") | 150 |
| A24 (3/32") | 200 |
| A28 (7/64") | 250 |
| A32 (1/8") | 300 |



P-Type (LPG) Nozzle for Cutogen 5

| NOZZLE SIZE | PLATE THICKNESS (mm) |
|-------------|----------------------|
| P8 (1/32") | 6 |
| P12 (3/64") | 12 |
| P16 (1/16") | 25,50,75 |
| P20 (5/64") | 100 |
| P24 (3/32") | 150 |
| P28 (7/64") | 200 |
| P32 (1/8") | 250 |



Operating Data for Mild Steel cutting with ESAB Cutting Blowpipe (Injector & Nozzle Mix type) comply with ISI & ISO Standards

| Material Thickness | Nozzle size | Gas Pressure Oxygen | | Gas Pressure Fuel | | | |
|--------------------|-------------|---------------------|-----|-------------------|-----|---------|-----|
| | | bar | psi | Acetylene | | Propane | |
| mm | Inch | | | bar | psi | bar | psi |
| 6.0 | 1/4" | 1.5 | 20 | 0.15 | 2.0 | 0.20 | 3.0 |
| 12.0 | 1/2" | 2.0 | 30 | 0.15 | 2.0 | 0.20 | 3.0 |
| 25.0 | 1" | 2.5 | 35 | 0.15 | 2.0 | 0.30 | 4.0 |
| 50.0 | 2" | 3.0 | 45 | 0.15 | 2.0 | 0.30 | 4.0 |
| 75.0 | 3" | 3.5 | 50 | 0.15 | 2.0 | 0.30 | 4.0 |
| 100.0 | 4" | 4.0 | 60 | 0.20 | 3.0 | 0.35 | 5.0 |
| 150.0 | 6" | 4.0 | 60 | 0.20 | 3.0 | 0.40 | 6.0 |
| 200.0 | 8" | 4.0 | 60 | 0.20 | 3.0 | 0.40 | 6.0 |
| 250.0 | 10" | 4.0 | 60 | 0.20 | 3.0 | 0.45 | 6.5 |
| 300.0 | 12" | 4.5 | 65 | 0.20 | 3.0 | 0.50 | 7.0 |