

IMPROVE THE DEPOSIT CHARACTERISTICS WITH GROWEL'S UNIQUE NICKEL PLATING TECHNOLOGY



TRUST THE LEADER IN SURFACE FINISHING

COMPLETE PLATTER AT YOUR DOORSTEP

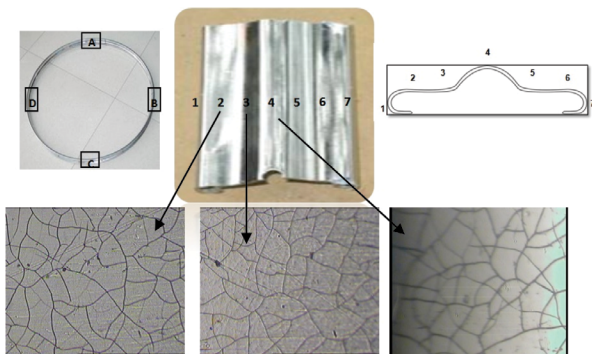
A. Functional ~ Ultimate choice for corrosion protection :

Ductolite Semibright

- Ideal base coat for multilayer nickel deposit.
- More noble, glossy semibright deposit.
- Imparts desired STEP characteristics ~ conforms automotive specs ~ 100 mV.
- Commercially viable and production proven process.

Ductolite MC Ni

- Produces uniform micro-cracks scattering irrespective to current density
- Offers very high corrosion resistance ~ Passes Russian Mud test.



Microcrack Ni-Cr

Ductolite Tri-Nickel

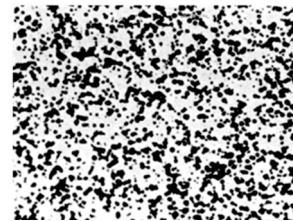
- High sulphur sandwich layer applied between semibright and bright nickel layer.
- Behaves like a sacrificial nickel deposit enhancing corrosion protection a multilayer nickel deposit.
- Produces desired STEP characteristics.

Ductolite Nickel Seal

- New generation micro-porous nickel process to achieve ideal micro-porous nickel chrome deposit.
- Contains a special water soluble additive responsible for desired porosity ~ simplifies plant layout.

Ductolite MPS Ni

- Production proven flash nickel process to obtain desired micro-porosity ~ 10000 ~ 40000 pores / sq.cm.
- Process involves specialized inert solids inducing porosity in the deposit



Microporous Ni Cr

B. Decorative ~ Ultimate choice for decorative process

Bright Nickel Plating Process

Superglo

Versatile bright nickel plating process, suitably applicable for any industries.

- Excellent flexibility in operation.
- Whitish deposit
- Deposit free from 'tarnishing'
- Economical in usage.

Unispec

New generation system to offer outstanding deposit brightness.

- Excellent brightness and leveling with desired ductility.
- Series includes 'single additive' system for regular bath replenishments.
- Highly concentrated system ~ brightener consumption can be reduced to almost half.

Pearlsheen Satin

- Fine grained glossy satin deposit.
- Whiter in appearance.
- Stable satin effect
- Lower decomposition of additives
- Smooth functioning -> 18 hours a day possible

Spectra

Bright Nickel plating process with moderate to excellent leveling.

- Superb brightness and leveling.
- High brilliance of deposit without loss of ductility
- Operation in both vat and barrel is possible

ZENITH/TOPBRITE

Ultra high leveling system specially designed for more glossy finish.

- More scratch filling ability-facilitates reduction in polishing cost.
- Exceptionally lower in brightener consumption.
- Deposits are highly receptive subsequent chrome deposition.
- Highly suitable for rack plating.

Black Nickel

- **Growblack Nickel** ~ Compounded salt to obtain black nickel deposits
- **Growel Anthracite / Antique Nickel** ~ Excellent nickel alloy to obtain 'bluish black' anthracite finish
- Superb throwing ability
- Consistent in operation

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