Our application expertise and state-of-the-art flotation laboratories enable us to develop the best product for each application, design the optimal application system, monitor product performance, and adjust formulations as conditions change.

ADVANCED PRODUCT CHEMISTRY & APPLICATION EXPERTISE COMBINED

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MINING CHEMICALS

With volatile commodity prices, rising energy rates and depleting natural resources, the mining industry today is being challenged to maximize returns from existing operations by producing more for less. In order to help you meet this challenge, ArrMaz offers a broad range of mining chemicals engineered to optimize process performance and efficiency. We develop custom reagent schemes and flowsheet designs for customer-specific ores to optimize grade and recovery, and perform comprehensive mineral flotation and reagent selection testing and evaluation to ensure a successful outcome for every project.

As a global market leader in the provision of specialty chemicals to the mining industry, ArrMaz will work closely with you to develop and implement a complete mining solutions package to help you succeed.

SUPERIOR MINING CHEMICAL TECHNOLOGIES FOR IMPROVED MINERAL GRADE & RECOVERY

ARRMAZ.COM

ADVANCED PRODUCT CHEMISTRY & APPLICATION EXPERTISE COMBINED

• Improved process efficiencies
• Better mineral selectivity
• Higher grade and recovery at lower collector doses
• Better pumping and slurry handling

PRIMARY APPLICATIONS

ArrMaz mining chemicals are engineered to optimize the following processes:

• Primary, secondary and reverse beneficiation
• Feed preparation, mineral conditioning, pH control and gangue suppression
• Froth stabilization, modification and selective flotation
• Foam control
• Mineral depression and/or activation
• Filtration and water removal
• Slurry handling

KEY BENEFITS

ArrMaz mining solutions deliver:

• Improved process efficiencies
• Better mineral selectivity
• Higher grade and recovery at lower collector doses
• Reduced mineral loss from foam-overs
• Depression specificity
• Improved filtration
• Lower water consumption

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MINING@ARRMAZ.COM | +1-863-578-1206 | ARRMAZ.COM
MINERALS
ArrMaz mining chemicals can be used to aid in the recovery of the following minerals:

- Phosphate
- Calcium Carbonate
- Garnet
- Niobium
- Vermiculite
- Iron Ore
- Silica
- Lithium
- Mica
- Fluorspar
- Barite
- Feldspar
- Rare Earth
- Kyanite
- Potash
- And most Carbonate/Oxide Minerals

MINING CHEMICALS
CustAmine® | CustoFloat® | CustoFloc™ | CustoFroth™ | Custo pH™ | CustoPrep™ | CustoScale™ | CustoSperse™

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<td>Anionic Collectors</td>
<td>Primary/secondary/reverse beneficiation Carbonate/oxide minerals flotation</td>
<td>Higher recovery, grade, selectivity Lower dose</td>
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<tr>
<td>Cationic Collectors</td>
<td>Primary/secondary/reverse beneficiation Silica, silicates, carbonate/oxide minerals</td>
<td>Higher recovery, grade, selectivity Lower dose</td>
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<td>pH Modifiers</td>
<td>Feed preparation Mineral conditioning Gangue suppression</td>
<td>Effective pH control Optimal surface preparation Higher recovery Selectivity improvement</td>
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<td>Frothers (Surfactants)</td>
<td>Froth stabilizers Froth modification flotation promotion Column flotation</td>
<td>Better bubble size and froth structure Improved grade and recovery Optimal surface preparation Strong collector attachment Increased selectivity</td>
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<tr>
<td>Defoamers</td>
<td>Foam control in launders, pump boxes, process tanks</td>
<td>Better pumping and slurry handling Prevents mineral loss in foam-overs</td>
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<td>Depressants</td>
<td>Mineral depressants Phosphate flotation Potash flotation Ion sequestration</td>
<td>Depress gangue minerals Depression specificity Higher grade and recovery Better selectivity Lower reagent doses</td>
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<tr>
<td>Float Oils</td>
<td>Mineral flotation Froth modification Collector extender</td>
<td>Optimal froth structure Improved grade and recovery Lower dose Environmentally friendly</td>
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<td>Filtration De-watering Aids</td>
<td>Filtration Water removal</td>
<td>Improved filtration Lowers surface tension Better process efficiencies</td>
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<tr>
<td>Rheology Modifiers</td>
<td>Slurry handling</td>
<td>Better process efficiencies Lower viscosity Better surface preparation Lower water consumption</td>
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THE ARRMAZ ADVANTAGE
Since 1967, ArrMaz has been a trusted partner to mining companies worldwide, delivering innovative chemical solutions for process improvement with superior responsiveness, expert technical advice and outstanding customer support. Some of the world’s largest industrial mineral producers trust ArrMaz’s proven solutions to optimize their process performance and efficiency. Send us your mineral and let us do the same for you.

Contact ArrMaz today to discover how our high-quality custom mining solutions can improve your mineral grade and recovery. Email Mining@ArrMaz.com or call +1-863-578-1206 for further information.

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